

Component-Level Information Packets

HP 70427A Microwave Downconverter

HP 70428A Microwave Source

Scanned By Doug Padrick. Manual loaned by Jim Muehlberg - NRAO Charlottesville



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The following safety symbols are used throughout this manual. Familiarize yourself with each of the symbols and its meaning before operating this instrument.

CAUTION	The <i>CAUTION</i> sign denotes a hazard. It calls attention to a procedure which, if not correctly performed or adhered to, could result in damage to or destruction of the product or the user's work. Do not proceed beyond a <i>CAUTION</i> sign until the indicated conditions are fully understood and met.
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WARNING	The <i>WARNING</i> sign denotes a hazard. It calls attention to a procedure which, if not correctly performed or adhered to, could result in injury to the user. Do not proceed beyond a <i>WARNING</i> sign until the indicated conditions are fully understood and met.
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DANGER	The <i>DANGER</i> sign denotes an imminent hazard to people. It warns the reader of a procedure which, if not correctly performed or adhered to, could result in injury or loss of life. Do not proceed beyond a <i>DANGER</i> sign until the indicated conditions are fully understood and met.
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General Safety Considerations

- WARNING**
- The instructions in this document are for use by qualified personnel only. To avoid electrical shock, do not perform any servicing unless you are qualified to do so.
 - The opening of covers or removal of parts is likely to expose dangerous voltages. Disconnect the instrument from all voltage sources while it is being opened.
 - The power cord is connected to internal capacitors that may remain live for five seconds after disconnecting the plug from its power supply.
 - This is a Safety Class 1 Product (provided with a protective earthing ground incorporated in the power cord). The mains plug shall only be inserted in a socket outlet provided with a protective earth contact. Any interruption of the protective conductor inside or outside of the instrument is likely to make the instrument dangerous. Intentional interruption is prohibited.
 - For continued protection against fire hazard, replace fuse only with same type and ratings, (type nA/nV). The use of other fuses or materials is prohibited.
-

- WARNING**
- Before this instrument is switched on, make sure it has been properly grounded through the protective conductor of the ac power cable to a socket outlet provided with protective earth contact.

Any interruption of the protective (grounding) conductor, inside or outside the instrument, or disconnection of the protective earth terminal can result in personal injury.
 - Before this instrument is switched on, make sure its primary power circuitry has been adapted to the voltage of the ac power source.

Failure to set the ac power input to the correct voltage could cause damage to the instrument when the ac power cable is plugged in.
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Component-Level Information Packages

This manual contains a set of component-level information packages (CLIPs) that correspond to each board assembly in the HP 70427A microwave downconverter module and HP 70428A microwave source module with field-replaceable parts.

Each CLIP package contains component-level repair information that includes parts lists, component-location drawings, and schematics.

Each board assembly and each CLIP packet are assigned a separate HP part number. When a board assembly is updated by Hewlett-Packard, a new CLIP packet is created for the new board assembly, and both the new board assembly and its CLIP packet are also assigned new HP part numbers.

Because there may be multiple versions of the same board assembly, refer to Table 1-1 through Table 1-3 before replacing any of the assemblies.

Refer to Table 1-4 through Table 1-6 for ordering information about exchange assemblies.

Table 1-7, Table 1-8, and Table 1-9 provide a guide to reference designations, abbreviations, and multipliers used in the “Description” column of the parts lists.

Table 1-10 lists manufacturer codes used in the “Mfr Code” column of the parts lists, along with the names of the manufacturers they represent.

Figure 1-1 and Figure 1-2 provide a guide to graphics symbols used on schematic and block diagrams.

Assembly Cross Matrix

Table 1-1.
Board Assemblies, CLIP Packets, and Replacement Assemblies for the
HP 70427A Microwave Downconverter Module

Name of Board Assembly	HP Part Number of Assembly	Serial Number of Module	HP Part Number of CLIP Packet for Assembly ¹	HP Part Number of Replacement Assembly ²
A1A1 front panel	70425-60113 ³	All units shipped.	70425-60113	70425-60113
A3 AM detector filter	70427-61804 ³	All units shipped.	70427-60101	70427-61804
A4 IF amplifier	70425-61805 ³	All units shipped.	70425-60108	70425-61805
A5A1 PWA power amplifier	70425-61803 ³	All units shipped.	70425-60107	70425-61803
A5A2 LO preamplifier	70425-61802 ³	All units shipped.	70425-60117	70425-61802
A6 power supply/controller	70425-61807 ³	All units shipped.	None Available.	70425-61807
A6A1 I/O and power supply	Order the A6.	All units shipped.	70425-60111	Order the A6.
A6A2 controller	Order the A6.	All units shipped.	70425-60112	Order the A6.
A7 600 MHz reference	70425-61808 ³	All units shipped.	None available.	70425-61808
A7A1 100 MHz loop	Order the A7.	All units shipped.	70425-60101	Order the A7.
A7A1A1 rainbow 261	Order the A7.	All units shipped.	70425-60116	Order the A7.
A7A2 600 MHz loop	Order the A7.	All units shipped.	70425-60102	Order the A7.
A7A2A1 rainbow 215	Order the A7.	All units shipped.	70425-60115	Order the A7.
A7A2A3 rainbow 147	Order the A7.	All units shipped.	70425-60114	Order the A7.
A9 YTF Driver	70425-61810 ³	All units shipped.	70425-60106	70425-61810

1 CLIP packet part numbers are for referencing the CLIP packets only, use the replacement assembly and exchange assembly part numbers for ordering purposes.

2 This is the part number for a new replacement assembly. Exchange assemblies may also be available. Refer to Table 1-4.

3 This is the most current board in production.

Table 1-2.
Board Assemblies, CLIP Packets, and Replacement Assemblies for the
HP 70428A Microwave Source Module

Name of Board Assembly	HP Part Number of Assembly	Serial Number of Module	HP Part Number of CLIP Packet for Assembly ¹	HP Part Number of Replacement Assembly ²
A1A1 front panel	70425-60113 ³	All units shipped.	70425-60113	70425-60113
A5A1 PWA power amplifier	70425-61803 ³	All units shipped.	70425-60107	70425-61803
A5A2 LO preamplifier	70425-61802 ³	All units shipped.	70425-60117	70425-61802
A6 power supply/controller	70425-61807 ³	All units shipped.	None available.	70425-61807
A6A1 I/O and power supply	Order the A6.	All units shipped.	70425-60111	Order the A6.
A6A2 controller	Order the A6.	All units shipped.	70425-60112	Order the A6.
A7 600 MHz reference	70425-61808 ³	All units shipped.	None available.	70425-61808
A7A1 100 MHz loop	Order the A7.	All units shipped.	70425-60101	Order the A7.
A7A2A1 rainbow 261	Order the A7.	All units shipped.	70425-60116	Order the A7.
A7A2 600 MHz loop	Order the A7.	All units shipped.	70425-60102	Order the A7.
A7A2A1 rainbow 215	Order the A7.	All units shipped.	70425-60115	Order the A7.
A7A2A3 rainbow 147	Order the A7.	All units shipped.	70425-60114	Order the A7.
A9 YTF Driver	70425-61810 ³	All units shipped.	70425-60106	70425-61810

1 CLIP packet part numbers are for referencing the CLIP packets only, use the replacement assembly and exchange assembly part numbers for ordering purposes.

2 This is the part number for a new replacement assembly. Exchange assemblies may also be available. Refer to Table 1-5.

3 This is the most current board in production.

Table 1-3.
Board Assemblies, CLIP Packets, and Replacement Assemblies for the
HP 70428A Option 002 Microwave Source Module

Name of Board Assembly	HP Part Number of Assembly	Serial Number of Module	HP Part Number of CLIP Packet for Assembly ¹	HP Part Number of Replacement Assembly ²
A1A1 front panel	70425-60113 ³	All units shipped.	70425-60113	70425-60113
A3A1 PWA power amplifier	70425-61803 ³	All units shipped.	70425-60107	70425-61803
A3A2 LO preamplifier	70425-61802 ³	All units shipped.	70425-60117	70425-61802
A5A1 PWA power amplifier	70425-61803 ³	All units shipped.	70425-60107	70425-61803
A5A2 LO preamplifier	70425-61802 ³	All units shipped.	70425-60117	70425-61802
A6 power supply/controller	70425-61807 ³	All units shipped.	None available.	70425-61807
A6A1 I/O and power supply	Order the A6.	All units shipped.	70425-60111	Order the A6.
A6A2 controller	Order the A6.	All units shipped.	70425-60112	Order the A6.
A7 600 MHz reference	70425-61808 ³	All units shipped.	None available.	70425-61808
A7A1 100 MHz loop	Order the A7.	All units shipped.	70425-60101	Order the A7.
A7A2A1 rainbow 261	Order the A7.	All units shipped.	70425-60116	Order the A7.
A7A2 600 MHz loop	Order the A7.	All units shipped.	70425-60102	Order the A7.
A7A2A1 rainbow 215	Order the A7.	All units shipped.	70425-60115	Order the A7.
A7A2A3 rainbow 147	Order the A7.	All units shipped.	70425-60114	Order the A7.
A8 YTF Driver 2	70425-61810 ³	All units shipped.	70425-60106	70425-61810
A9 YTF Driver	70425-61810 ³	All units shipped.	70425-60106	70425-61810

1 CLIP packet part numbers are for referencing the CLIP packets only, use the replacement assembly and exchange assembly part numbers for ordering purposes.

2 This is the part number for a new replacement assembly. Exchange assemblies may also be available. Refer to Table 1-6.

3 This is the most current board in production.

Exchange Assembly Cross Matrix

Rebuilt assemblies that may be replaced on an exchange basis are included in Table 1-4 through Table 1-6. Exchange assemblies (factory repaired and tested) are available only on a trade-in basis, requiring that the defective assemblies be returned for credit. Any assemblies desired for spare parts in the user stock must be ordered by the new assembly part number.

Table 1-4.
Board Assemblies, CLIP Packets, and Exchange Assemblies for the
HP 70427A Microwave Downconverter Module

Name of Board Assembly	HP Part Number of New Assembly	HP Part Number of CLIP Packet for Assembly ¹	HP Part Number of Exchange Assembly
A3 AM detector filter	70427-61804 ²	70427-60101	70427-69804
A4 IF amplifier	70425-61805 ²	70425-60108	70425-69805
A5A1 PWA power amplifier	70425-61803 ²	70425-60107	70425-69803
A5A2 LO preamplifier	70425-61803 ²	70425-60117	70425-69802
A6 power supply/controller	70425-61807 ²	None available.	70425-69807
A6A1 I/O and power supply	Order the A6.	70425-60111	Order the A6.
A6A2 controller	Order the A6.	70425-60112	Order the A6.
A7 600 MHz reference	70425-61808 ²	None available.	70425-69808
A7A1 100 MHz loop	Order the A7.	70425-60101	Order the A7.
A7A1A1 rainbow 261	Order the A7.	70425-60116	Order the A7.
A7A2 600 MHz loop	Order the A7.	70425-60102	Order the A7.
A7A2A1 rainbow 215	Order the A7.	70425-60115	Order the A7.
A7A2A3 rainbow 147	Order the A7.	70425-60114	Order the A7.
A9 YTF Driver	70425-61810 ²	70425-60106	70425-69810

1 CLIP packet part numbers are for referencing the CLIP packets only, use the replacement assembly and exchange assembly part numbers for ordering purposes.

2 This is the most current board assembly in production.

Table 1-5.
Board Assemblies, CLIP Packets, and Exchange Assemblies for the
HP 70428A Microwave Source Module

Name of Board Assembly	HP Part Number of New Assembly	HP Part Number of CLIP Packet for Assembly	HP Part Number of Exchange Assembly
A5A1 PWA power amplifier	70425-61803 ; ¹	70425-60107	70425-69803
A5A2 LO preamplifier	70425-61802 ¹	70425-60117	70425-69802
A6 power supply/controller	70425-61807 ¹	Not available.	70425-69807
A6A1 I/O and power supply	Order the A6.	70425-60111	Order the A6.
A6A2 controller	Order the A6.	70425-60112	Order the A6.
A7 600 MHz reference	70425-61808 ¹	None available.	70425-69808
A7A1 100 MHz loop	Order the A7.	70425-60101	Order the A7.
A7A2A1 rainbow 261	Order the A7.	70425-60116	Order the A7.
A7A2 600 MHz loop	Order the A7.	70425-60102	Order the A7.
A7A2A1 rainbow 215	Order the A7.	70425-60115	Order the A7.
A7A2A3 rainbow 147	Order the A7.	70425-60114	Order the A7.
A9 YTF Driver	70425-61810 ¹	70425-60106	70425-69810

¹ This is the most current board assembly in production.

Table 1-6.
Board Assemblies, CLIP Packets, and Exchange Assemblies for the
HP 70428A Option 002 Microwave Source Module

Name of Board Assembly	HP Part Number of New Assembly	HP Part Number of CLIP Packet for Assembly	HP Part Number of Exchange Assembly
A3A1 PWA power amplifier	70425-61803 ; ¹	70425-60107	70425-69803
A3A2 LO preamplifier	70425-61802 ¹	70425-60117	70425-69802
A5A1 PWA power amplifier	70425-61803 ¹	70425-60107	70425-69803
A5A2 LO preamplifier	70425-61802 ¹	70425-60117	70425-69802
A6 power supply/controller	70425-61807 ¹	None available.	70425-69807
A6A1 I/O and power supply	Order the A6.	70425-60111	Order the A6.
A6A2 controller	Order the A6.	70425-60112	Order the A6.
A7 600 MHz reference	70425-61808 ¹	None available.	70425-69808
A7A1 100 MHz loop	Order the A7.	70425-60101	Order the A7.
A7A2A1 rainbow 261	Order the A7.	70425-60116	Order the A7.
A7A2 600 MHz loop	Order the A7.	70425-60102	Order the A7.
A7A2A1 rainbow 215	Order the A7.	70425-60115	Order the A7.
A7A2A3 rainbow 147	Order the A7.	70425-60114	Order the A7.
A9 YTF Driver	70425-61810 ¹	70425-60106	70425-69810
A9 YTF Driver	70425-61810 ¹	70425-60106	70425-69810

1 This is the most current board assembly in production.

Reference Designations

Table 1-7. Reference Designations

REFERENCE DESIGNATIONS		
A Assembly	F Fuse	RT Thermistor
AT Attenuator, Isolator, Limiter, Termination	FL Filter	S Switch
B Fan, Motor	HY Circulator	T Transformer
BT Battery	J Electrical Connector (Stationary Portion), Jack	TB Terminal Board
C Capacitor	K Relay	TC Thermocouple
CP Coupler	L Coil, Inductor	TP Test Point
CR Diode, Diode Thyristor, Step Recovery Diode, Varactor	M Meter	U Integrated Circuit, Microcircuit
DC Directional Coupler	MP Miscellaneous Mechanical Part	V Electron Tube
DL Delay Line	P Electrical Connector (Movable Portion), Plug	VR Breakdown Diode (Zener), Voltage Regulator
DS Annunciator, Lamp, Light Emitting Diode (LED), Signaling Device (Visible)	Q Silicon Controlled Rectifier (SCR), Transistor, Triode Thyristor	W Cable, Wire, Jumper
E Miscellaneous Electrical Part	R Resistor	X Socket
		Y Crystal Unit (Piezoelectric, Quartz)
		Z Tuned Cavity, Tuned Circuit

Abbreviations

Table 1-8. Abbreviations

ABBREVIATIONS			
A		BSC Basic	CNDCT Conducting,
A	Across Flats, Acrylic,	BTN Button	Conductive,
	Air (Dry Method),	C	Conductivity,
	Ampere		Conductor
ADJ	Adjust, Adjustment	C	CONT Contact,
ANSI	American National		Continuous,
	Standards Institute		Control,
	(formerly		Controller
	USASI-ASA)		CONV Converter
ASSY	Assembly	CCP Carbon Composition	CPRSN Compression
AWG	American Wire Gage		CUP-PT Cup Point
B		CD Cadmium, Card,	CW Clockwise,
		Cord	Continuous Wave
BCD	Binary Coded	CER Ceramic	
	Decimal	CHAM Chamfer	D
BD	Board, Bundle	CHAR Character,	
BE-CU	Beryllium Copper	Characteristic,	D Deep, Depletion,
BNC	Type of Connector	Charcoal	Depth, Diameter,
BRG	Bearing, Boring	CMOS Complementary	Direct Current
BRS	Brass	Metal Oxide	DA Darlington
DAP-GL	Diallyl Phthalate	Semiconductor	JFET Junction Field
	Glass	FT Current Gain	Effect Transistor
DBL	Double	Bandwidth Product	
DCDR	Decoder	(Transition	K
DEG	Degree	Frequency), Feet,	
D-HOLE	D-Shaped Hole	Foot	K Kelvin, Key,
DIA	Diameter	FXD Fixed	Kilo, Potassium
DIP	Dual In-Line Package	G	KNRLD Knurled
DIP-SLDR	Dip Solder		KVDC Kilovolts
D-MODE	Depletion Mode	GEN General, Generator	Direct Current
DO	Package Type	GND Ground	
	Designation	GP General Purpose,	L
DP	Deep, Depth, Dia-	Group	
	metric Pitch, Dip	H	LED Light Emitting
DP3T	Double Pole Three		Diode
	Throw	H Henry, High	LG Length, Long
DPDT	Double Pole Double	HDW Hardware	LIN Linear, Linearity
	Throw		LK Link, Lock

Table 1-8. Abbreviations (continued)

ABBREVIATIONS					
DWL	Dowell	HEX	Hexadecimal, Hexagon, Hexagonal	LKG	Leakage, Locking
	E			LUM	Luminous
E-R	E-Ring	HLCL	Helical		M
EXT	Extended, Extension, External, Extinguish	HP	Hewlett-Packard Company, High Pass		
	F		I	M	Male, Maximum, Mega, Mil, Milli, Mode
F	Fahrenheit, Farad, Female, Film (Resistor), Fixed, Flange, Frequency	IC	Collector Current, Integrated Circuit	MA	Milliampere
FC	Carbon Film/ Composition, Edge of Cutoff Frequency, Face	ID	Identification, Inside Diameter	MACH	Machined
		IF	Forward Current, Intermediate Frequency	MAX	Maximum
FDTHRU	Feedthrough	IN	Inch	MC	Molded Carbon Composition
FEM	Female	INCL	Including	MET	Metal, Metallized
FIL-HD	Fillister Head	INT	Integral, Intensity, Internal	MHZ	Megahertz
FL	Flash, Flat, Fluid		J	MINTR	Miniature
FLAT-PT	Flat Point	J-FET	Junction Field Effect Transistor	MIT	Miter
FR	Front	PLSTC	Plastic	MLD	Mold, Molded
FREQ	Frequency	PNL	Panel	MM	Magnetized Material, Millimeter
	N	PNP	Positive Negative Positive (Transistor)	MOM	Momentary
N	Nano, None	POLYC	Polycarbonate	MTG	Mounting
N-CHAN	N-Channel	POLYE	Polyester	MTLC	Metallic
NH	Nanohenry	POT	Potentiometer	MW	Milliwatt
NM	Nanometer, Nonmetallic	POZI	Pozidriv Recess	SMA	Subminiature, A Type (Threaded Connector)
NO	Normally Open, Number	PREC	Precision	SMB	Subminiature, B Type (Slip-on Connector)
NOM	Nominal	PRP	Purple, Purpose	SMC	Subminiature, C-Type (Threaded Connector)
NPN	Negative Positive Negative (Transistor)	PSTN	Piston	SPCG	Spacing
NS	Nanosecond, Non-Shorting, Nose	PT	Part, Point, Pulse Time	SPDT	Single Pole Double Throw
NUM	Numeric	PW	Pulse Width	SPST	Single Pole Single Throw
NYL	Nylon (Polyamide)			SQ	Square
				SST	Stainless Steel

Table 1-8. Abbreviations (continued)

ABBREVIATIONS			
	O	Q	STL Steel
			SUBMIN Subminiature
		Q Figure of Merit	SZ Size
OA	Over-All		
OD	Outside Diameter	R	
OP AMP	Operational Amplifier	R Range, Red, Resistance, Resistor, Right, Ring	T
OPT	Optical, Option, Optional	REF Reference	T Teeth, Temperature, Thickness, Time, Timed, Tooth, Typical
	P	RES Resistance, Resistor	TA Ambient Temperature, Tantalum
PA	Picoampere, Power Amplifier	RF Radio Frequency	TC Temperature Coefficient
PAN-HD	Pan Head	RGD Rigid	THD Thread, Threaded
PAR	Parallel, Parity	RND Round	THK Thick
PB	Lead (Metal), Pushbutton	RR Rear	TO Package Type Designation
PC	Printed Circuit	RVT Rivet, Riveted	TPG Tapping
PCB	Printed Circuit Board	S	TR-HD Truss Head
P-CHAN	P-Channel	SAWR Surface Acoustic Wave Resonator	TRMR Trimmer
PD	Pad, Power Dissipation	SEG Segment	TRN Turn, Turns
PF	Picofarad, Power Factor	SGL Single	TRSN Torsion
PKG	Package	SI Silicon, Square Inch	Y
	U	SL Slide, Slow	YIG Yttrium-Iron-Garnet
UCD	Microcandela	SLT Slot, Slotted	
UF	Microfarad	VAR Variable	
UH	Microhenry	VDC Volts—Direct Current	
UL	Microliter, Underwriters' Laboratories, Inc.	W	
UNHDND	Unhardened	W Watt, Wattage, White, Wide, Width	Z
	V	W/SW With Switch	ZNR Zener
		WW Wire Wound	
V	Variable, Violet, Volt, Voltage	X	
VAC	Vacuum, Volts—Alternating Current	X By (Used with Dimensions), Reactance	

Multipliers

Table 1-9. Multipliers

MULTIPLIERS					
Abbreviation	Prefix	Multiple	Abbreviation	Prefix	Multiple
T	tera	10^{12}	m	milli	10^{-3}
G	giga	10^9	μ	micro	10^{-6}
M	mega	10^6	n	nano	10^{-9}
k	kilo	10^3	p	pico	10^{-12}
da	deka	10^2	f	femto	10^{-15}
d	deci	10^{-1}	a	atto	10^{-18}
c	centi	10^{-2}			

Manufacturer Codes

Table 1-10. Manufacturers Code List

Mfr Code	Manufacturer Name	Address	Country	ZIP Code
00039	NEC ELECTRONICS INC	MTN VIEW, CA	US	94043
00046	UNITRODE CORP	LEXINGTON, MA	US	02173
00075	ARIZONA COIL INC	NOGALES, AZ	US	85621
00273	STILLWATER MFG CO	EAST FREEDOM, MA	US	02717
00278	MCCOY ELECTRONICS CO	HOLLY SPRINGS, PA	US	17065
00350	EXAR INTEGRATED SYSTEMS INC	SUNNYVALE, CA	US	94086
00466	NORELCO NORTH AMER PHILIPS LTG CORP	LOS ANGELES, CA	US	90021
00493	UNITED CHEMI-CON INC	COMPTON, CA	US	90220
00746	ROHM CORP	IRVINE, CA	US	92713
00779	NICHICON (AMERICA) CORP	SCHAUMBERG, IL	US	60195
00830	KYOCERA INTERNATIONAL INC	SAN DIEGO, CA	US	
00901	UNION CARBIDE CORP	DANBURY, CT	US	06810
01064	SCHAAL BROS INC	BERTHOUD, CO	US	80513
01074	HOLSWORTHY ELECTRONICS LTD	HOLSWORTHY	EG	
01128	RES-NET CORP	WHIPPANY, NJ	US	07981
01131	WESTERN THERMISTOR CORP	OCEANSIDE, CA	US	92054
01136	ELCO INDUSTRIES INC	ROCKFORD, IL	US	61125
01172	R C D COMPONENTS INC	BEDFORD, NH	US	03102
01185	MAGNET WIRE CORP	NEW YORK, NY	US	10013
01230	AEROVOX CORP	NEW BEDFORD, MA	US	02741
01250	GTE SYLVANIA ELEK COMPONENTS GROUP	WALTHAM, MA	US	02154
01339	GETTIG ENGRG & MFG CO INC	SPRING MILLS, PA	US	16875
01380	AMP INC	HARRISBURG, PA	US	17111
01409	CROVEN CRYSTALS	WHITBY	CN	L1N 5
01417	NEL FREQUENCY CONTROLS INC	BURLINGTON, WI	US	53105
01452	SANGAMO WESTON INC	NORCROSS, GA	US	30071
01461	GOE ENGINEERING CO INC	ONTARIO, CA	US	91761
01468	STETTNER & CO	LAUF	GM	D-856
01478	BOYD CORP	PLEASANTON, CA	US	94566
01542	HP DIV 01 SAN JOSE COMPONENTS	SAN JOSE, CA	US	95131
01590	PLESSEY SEMICONDUCTORS	SANTA ANA, CA	US	92705
01607	ALLEN-BRADLEY CO INC	EL PASO, TX	US	79935
01688	MURATA CORPORATION OF AMERICA	MARIETTA, GA	US	30067
01691	TRW INC SEMICONDUCTOR DIV	LAWNDALE, CA	US	90260
01698	TEXAS INSTRUMENTS INC	DALLAS, TX	US	75265
01708	JUBULATION	SANTA CRUZ, CA	US	95060
01736	ALLIED ELECTRONICS CORP	CHICAGO, IL	US	60612
01760	MATSUO ELECTRONICS OF AMERICA	HUNTINGTON BEACH, CA	US	90245
01795	SYNERTEK	SANTA CLARA, CA	US	95051

Table 1-10. Manufacturers Code List (continued)

Mfr Code	Manufacturer Name	Address	Country	ZIP Code
01850	AROMAT CORP	MOUNTAINSIDE, NJ	US	07092
01854	RCL ELECTRONICS INC	NORTHBROOK, IL	US	60062
01869	PULSE ENGINEERING INC	SAN DIEGO, CA	US	92111
01876	HP DIV 02 SCD IC'S	SANTA CLARA, CA	US	95050
01885	HAMILTON STANDARD CONTROLS INC	WINDWOR LOCKS, CT	US	06096
01886	COILCRAFT INC	CARY, IL	US	60013
01887	FERROXCUBE CORP	SAUGERTIES, NY	US	12477
01898	HI-G CO INC	HARTFORD, CT	US	06114
01916	BUNKER RAMO CORP AMPHENOL CONN DIV	BROADVILLE, IL	US	60153
01921	RCA CORP	NEW YORK, NY	US	10112
01923	NYLOGRIP PRODUCTS	WALTHAM, MA	US	02154
01924	ITW FASTEX	DES PLAINES, IL	US	60016
01939	ELPAC INC COMPONENTS DIV	IRVINE, CA	US	92664
01943	HP DIV 04 SPD CABLES 64	PALO ALTO, CA	US	94304
01953	HP DIV 04 SPD MOLDING 91	PALO ALTO, CA	US	94304
01973	GE CO SEMICONDUCTOR PROD DEPT	AUBURN, NY	US	13201
01991	TRANSITRON ELECTRONIC CORP	WAKEFIELD, MA	US	01880
01992	KDI PYROFILM CORP	WHIPPANY, NJ	US	07981
01993	MARKEL CORP	NORRISTOWN, PA	US	19404
02010	AVX CORP	GREAT NECK, NY	US	11021
02030	NATIONAL WIRE & CABLE CO INC	LOS ANGELES, CA	US	90031
02037	MOTOROLA INC	ROSELLE, IL	US	60195
02038	UNICORP	ORANGE, NJ	US	07050
02062	HP DIV 05 MSD	SAN JOSE, CA	US	94304
02086	WESTINGHOUSE ELEC CORP SEMICON DEPT	YOUNGWOOD, PA	US	15697
02091	ULTRONIX INC	GRAND JUNCTION, CO	US	81501
02123	EG & G INC	WELLESLEY, MA	US	02181
02139	MEPCO/ELECTRA INC	MORRISTOWN, NJ	US	07960
02145	RAYCHEM CORP	MENLO PARK, CA	US	94025
02160	PANDUIT CORP	TINLEY PARK, IL	US	60477
02170	AMATOM ELEK HARDWARE DIV OF MITE	NEW ROCHELLE, NY	US	06515
02172	JEFFERS ELECTRONICS INC	NOGALES, AZ	US	85621
02180	PRECISION MONOLITHICS INC	SANTA CLARA, CA	US	95054
02191	CORNING COMPONENTS INC	CORNING, NY	US	14830
02194	ROBINSON NUGENT INC	NEW ALBANY, IN	US	47150
02210	MILTON ROSS CO	SOUTHAMPTON, PA	US	18966
02215	KELVIN ELECTRIC CO	VAN NUYS, CA	US	91401
02236	SILICON TRANSISTOR CORP	CHELMSFORD, MA	US	11530
02237	FAIRCHILD SEMICONDUCTOR CORP	CUPERTINO, CA	US	95014

Table 1-10. Manufacturers Code List (continued)

Mfr Code	Manufacturer Name	Address	Country	ZIP Code
02273	TRW INC BURLINGTON DIV	BURLINGTON, IA	US	52601
02290	RAYTHEON CO SEMICONDUCTOR DIV HQ	MOUNTAIN VIEW, CA	US	94040
02296	HP DIV 08 COLO SPRGS	COLORADO SPRGS, CO	US	80907
02344	GE CO MINIATURE LAMP PROD DEPT	CLEVELAND, OH	US	44112
02362	HP DIV 09 LID COMPONENTS	LOVELAND, CO	US	80537
02363	HP DIV C5 COLORADO IC	FT COLLINS, CO	US	80525
02366	KOA SPEER ELECTRONICS INC	BRADFORD, PA	US	16701
02367	CORNELL-DUBILIER/SANGAMO	WAYNE, NJ	US	07470
02379	TEXAS CAPACITOR CO INC	HOUSTON, TX	US	77036
02392	C & K COMPONENTS INC	NEWTON, MA	US	02158
02408	DIXON INDUSTRIES CORPORATION	BRISTOL, RI	US	02809
02414	BURNDY CORP	NORWALK, CT	US	06856
02415	DALE ELECTRONICS INC	YANKTON, SD	US	57078
02440	THOMPSON BREMER DIV VARE	CHICAGO, IL	US	60622
02465	ANILLO INDUSTRIES INC	ORANGE, CA	US	92667
02483	CTS CORP	ELKHART, IN	US	46514
02484	CTS CORP PASO ROBLES	PASO ROBLES, CA	US	93446
02499	IRC INC	BOONE, NC	US	28607
02501	TELEDYNE INDUSTRIES INC	LOS ANGELES, CA	US	90067
02556	MONTROSE PRODUCTS CO	AUBURN, MA	US	01501
02567	OMTRONICS MFG INC	OMAHA, NE	US	68105
02569	CRYSTALONICS, DIV TELEDYNE	CAMBRIDGE, MA	US	02140
02572	TELEDYNE THERMATICS	ELM CITY, NC	US	27822
02574	RLC ELECTRONICS INS	MT KISCO, NY	US	10549
02577	HAMLIN INC	LAKE MILLS, WI	US	53551
02582	CLAROSTAT MFG CO INC	DOVER, NH	US	03820
02598	UNITRODE CORP	WATERTOWN, MA	US	02172
02603	NATIONAL WIRE & STAMPING INC	ENGLEWOOD, CO	US	80110
02608	THERMALLOY INC	DALLAS, TX	US	75234
02619	SOLITRON DEVICES INC (DIODES)	TAPPAN, NY	US	10983
02634	SPRAGUE ELECTRIC SEMICON DIV	CONCORD, NH	US	03301
02664	SEMTECH CORP	NEWBURY PARK, CA	US	91320
02668	EDISON ELEK DIV MCGRAW-EDISON	MANCHESTER, NH	US	03130
02675	AMERICAN COMPONENTS INC	CONSHOHOCKEN, PA	US	19428
02682	ITT SEMICONDUCTORS DIV	TUSTIN, CA	US	92680
02685	LOBAUGH ROLLIN J	SOUTH SAN FRANC, CA	US	94080
02686	WATKINS-JOHNSON CO	PALO ALTO, CA	US	94304
02688	MICROSEMI CORP	SCOTSDALE, AZ	US	85252
02696	CORNING GLASS WORKS ELEK PROD DIV	CORNING, NY	US	14830

Table 1-10. Manufacturers Code List (continued)

Mfr Code	Manufacturer Name	Address	Country	ZIP Code
02706	WARD LEONARD HAGERSTOWN DIV	HAGERSTOWN, MD	US	21740
02713	GENERAL INSTRUMENT CORP (DIODE)	HICKSVILLE, NY	US	11802
02718	VALOR ELECTRONICS INC	SANTA ANA, CA	US	92705
02734	AMETEK INC RODAN DIV	ANAHEIM, CA	US	92806
02739	MINI-CIRCUITS LAB	BROOKLYN, NY	US	11235
02744	ELEC-TROL INC	SAUGUS, CA	US	91350
02761	FENWAL ELECTRONICS INC	SADDLE BROOK, NJ	US	07662
02763	TELEDYNE SEMICONDUCTOR	MOUNTAIN VIEW, CA	US	94043
02771	ANSLEY ELECTRIC	LOS ANGELES, CA	US	90032
02788	M/A-COM INC	BURLINGTON, MA	US	01803
02798	CORNING ELECTRONICS	RALEIGH, NC	US	27604
02803	CODI SEMICONDUCTOR	LINDEN, NJ	US	07410
02805	COOPER INDUSTRIES INC	HOUSTON, TX	US	77210
02813	U S CAPACITOR CORP	BURBANK, CA	US	91504
02826	DENNISON MFG CO	FRAMINGHAM, MA	US	01701
02856	MOHAWK SPRING CO INC	ARLINGTON HEIGHTS, IL	US	60008
02865	ALPHA INDUSTRIES INC	WOBURN, MA	US	01801
02877	ANGSTROM PRECISION INC	VAN NUYS, CA	US	91405
02883	SILICONIX INC	SANTA CLARA, CA	US	95054
02910	SIGNETICS CORP	SUNNYVALE, CA	US	94086
02923	CHOMERICS INC	WOBURN, MA	US	01801
02928	VISHAY INTERTECHNOLOGY INC	MALVERN, PA	US	19355
02937	VOLTRONICS CORP	HANOVER, NJ	US	07936
02946	DUPONT E I DE NEMOURS & CO	WILMINGTON, DE	US	19801
02995	MEPCO/CENTRALAB INC	RIVIERA, FL	US	33404
03038	INTL RECTIFIER CORP	LOS ANGELES, CA	US	90069
03122	EMCON DIV ITW	SAN DIEGO, CA	US	92129
03123	MICRO-OHM CORP	EL TORO, CA	US	92630
03171	SOLITRON DEVICES INC	PALM BEACH, FL	US	33404
03172	TRW MICROWAVE	SUNNYVALE, CA	US	94086
03174	ANZAC ELEK DIV ADAMS-RUSSEL CO INC	WALTHAM, MA	US	02154
03206	DUPONT CONNECTOR SYSTEMS	CAMP HILL, PA	US	17011
03232	PRODUCT COMPONENT CORP	MT VERNON, NY	US	10553
03239	WAVETEK	SAN DIEGO, CA	US	92111
03257	M-TRON INDUSTRIES INC	YANKTON, SD	US	57078
03259	STANFORD APPLIED ENGINEERING	SANTA CLARA, CA	US	95054
03263	ELECTRONIZED CHEMICALS CORP	BURLINGTON, MA	US	01803
03273	GOWANDA ELECTRONICS CORP	GOWANDA, NY	US	14070
03282	GENERAL CABLE CORP	NEW YORK, NY	US	10017

Table 1-10. Manufacturers Code List (continued)

Mfr Code	Manufacturer Name	Address	Country	ZIP Code
03285	ANALOG DEVICES INC	NORWOOD, MA	US	02062
03291	AVANTEK INC	SANTA CLARA, CA	US	95054
03292	CORNING GLASS WORKS	CORNING, NY	US	14830
03297	EMC TECHNOLOGY INC	CHERRY HILL, NJ	US	08034
03316	SPECIALTY CONNECTOR CO	FRANKLIN, IN	US	46131
03317	AEG-TELEFUNKEN CORP	ENGLEWOOD, NJ	US	07632
03334	NV PHILIPS ELCOMA	EINDHOVEN	NE	02876
03352	SWISS AUTOMATICS INC	COLUMBUS, NE	US	68601
03371	USM CORP NYLOK FASTENER DIV	TORRANCE, CA	US	90501
03380	GRIES/DYNACAST CO DIV COATES-CLARK	NEW ROCHELLE, NY	US	10802
03389	VARADYNE INC	SANTA MONICA, CA	US	90404
03394	METHODE ELECTRONICS INC	CHICAGO, IL	US	60656
03395	MEPCO/CENTRALAB INC	WEST PALM BEACH, FL	US	33407
03406	NATIONAL SEMICONDUCTOR CORP	SANTA CLARA, CA	US	95052
03412	CORNING GLASS WORKS (WILMINGTON)	WILMINGTON, NC	US	28401
03418	MOLEX INC	LISLE, IL	US	60532
03428	NONOTUCK MFG CO	HADLEY FALLS, MA	US	01075
03441	F-DYNE ELECTRONICS CO	BRIDGEPORT, CT	US	06605
03521	JOHANSON DIELECTRICS INC	BURBANK, CA	US	91510
03530	STACKPOLE COMPONENT CO	RALEIGH, NC	US	27620
03545	TELEDYNE PHILBRICK NEXUS	DEDHAM, MA	US	02026
03594	CARTER SEMICONDUCTORS	LOWELL, MA	US	01850
03621	M/A-COM CABLEWAVE MINI PROD	BURLINGTON, MA	US	01803
03627	SOLID STATE DEVICES INC	LA MIRADA, CA	US	90638
03647	INSTRUMENT SPECIALTIES CO INC	DEL WATER GAP, PA	US	07424
03651	MEPCO/ELECTRA CORP	SAN DIEGO, CA	US	92121
03658	ALPHA IND MICROELECTRONICS DIVISION	COLMAR, PA	US	18915
03706	WEST-CAP ARIZONA	SAN FERNANDO, CA	US	91340
03714	INTERSIL INC	CUPERTINO, CA	CA	95014
03724	BIVAR INC	SANTA ANA, CA	US	92705
03740	ERIE TECH PROD INC ERIE FREQ CONT	CARLISLE, PA	US	17013
03744	BOURNS INC	RIVERSIDE, CA	US	92507
03746	SPECTRUM CONTROL INC	ERIE, PA	US	16505
03747	COLORADO CRYSTAL CORP	LOVELAND, CO	US	80537
03762	TELE-TECH CORP	BOZEMAN, MT	US	59771
03793	SILICON GENERAL INC	SAN JOSE, CA	US	95134
03794	ADVANCED MICRO DEVICES INC	SUNNYVALE, CA	US	94086
03795	MOTOROLA INC	FRANKLIN PARK, IL	US	60131
03799	HARRIS CORP	MELBOURNE, FL	US	32901

Table 1-10. Manufacturers Code List (continued)

Mfr Code	Manufacturer Name	Address	Country	ZIP Code
03811	INTEL CORP	SANTA CLARA, CA	US	95054
03827	FAIR RITE PRODUCTS CORP	WALLKILL, NY	US	12589
03849	MICROSYSTEMS INTERNATIONAL LTD	OTTAWA	CN	
03910	GENERAL ELECTRIC CO	PHILADELPHIA, PA	US	19124
03923	SIEMENS CORP	ISELIN, NJ	US	08830
03938	MIDLAND-ROSS CORP	CLEVELAND, OH	US	44113
03972	OHMITE MFG CO	SKOKIE, IL	US	60076
03973	HP DIV 45 NMD	SANTA ROSA, CA	US	95401
04068	LABINAL COMPONENTS & SYSTEMS INC	ELK GROVE VILLA, IL	US	60007
04078	SGS-THOMSON MICROELECTRONICS INC	PHOENIX, AZ	US	85022
04092	MONOLITHIC MEMORIES INC	SANTA CLARA, CA	US	95054
04121	SEMICONDUCTOR CIRCUITS INC	HAVERHILL, MA	US	01830
04150	VICLAN INC	SAN DIEGO, CA	US	92138
04169	SANGAMO ELECTRIC CO	SPRINGFIELD, IL	US	62702
04181	AHAM-TOR	RANCHO, CA	US	91702
04182	SHALLCROSS INC	NORTHBROK, IL	US	60062
04200	SPRAGUE ELECTRIC CO	LEXINGTON, MA	US	02173
04204	SPS TECHNOLOGIES	NEWTOWN, PA	US	18940
04213	STIMPSON EDWIN B CO INC	BROOKLYN, NY	US	11705
04225	THOMAS & BETTS CORP	RARITAN, NJ	US	08869
04234	DELBERT BLINN CO	POMONA, CA	US	91766
04261	INSULECTRO CORP	BURLINGAME, CA	US	94010
04314	VLN CORP VICTOREEN INSTRUMENT DIV	CLEVELAND, OH	US	44103
04379	AMETEK INC	PAOLI, PA	US	19301
04393	CENTRE ENGINEERING INC	STATE COLLEGE, PA	US	16801
04418	ALLEN MFG CO	HARTFORD, CT	US	06101
04423	G.E. CERAMICS, INC.	CHATTANOOGA, TN	US	37405
04458	BLILEY ELECTRIC CO	ERIE, PA	US	16508
04464	BRAND REX CO	WILLIMANTIC, CT	US	06226
04475	CAMBRIDGE THERMIONIC CORP	CAMBRIDGE, MA	US	02138
04486	ITT CORP	NEW YORK, NY	US	10022
04492	CENTRALAB INC	MILWAUKEE, WI	US	53209
04504	GENERAL INSTRUMENT CORP	CLIFTON, NJ	US	07012
04507	TRW INC	CLEVELAND, OH	US	44124
04514	DOW CORNING CORP	MIDLAND, MI	US	48641
04522	ELECTRO MOTIVE CORP	FLORENCE, SC	US	06226
04550	GENERAL ELECTRIC CO	FAIRFIELD, CT	US	06430
04563	ERIE TECHNOLOGICAL PRODUCTS INC	ERIE, PA	US	16512
04564	ESSEX INTERNATIONAL INC	FORT WAYNE, IN	US	46804

Table 1-10. Manufacturers Code List (continued)

Mfr Code	Manufacturer Name	Address	Country	ZIP Code
04567	ITT HARPER DIV	CHICAGO, IL	US	60606
04568	BECKMAN INDUSTRIAL CORP	FULLERTON, CA	US	92635
04581	BARWOOD MFG CORP	EVERETT, MA	US	02149
04605	FISCHER SPECIAL MFG CO	CINCINNATI, OH	US	45206
04615	J F D ELECTRONICS CORP	BROOKLYN, NY	US	11219
04645	SIGNALITE DIV GENERAL INST CORP	NEPTUNE, NJ	US	07753
04648	PIEZO CRYSTAL CO	CARLSILE, PA	US	17013
04670	EF JOHNSON CO	WASECA, MN	US	56093
04672	TRW INC PHILADELPHIA DIV	PHILADELPHIA, PA	US	19108
04703	LITTELFUSE INC	DES PLAINES, IL	US	60016
04719	MARWEDEL C W	SAN FRANCISCO, CA	US	94103
04726	3M CO	ST PAUL, MN	US	55144
04733	BELL INDUSTRIES INC MILLER JW DIV	COMPTON, CA	US	90224
04757	OAK SWITCH SYSTEMS INC	CRYSTAL LAKE, IL	US	60014
04776	POTTER & BRUMFIELD INC	PRINCETON, IN	US	47671
04805	ILLINOIS TOOL WORKS INC SHAKEPROOF	ELGIN, IL	US	60126
04821	TILLEY MFG CO	MORGAN HILL, CA	US	94070
04822	STACKPOLE CARBON CO	ST MARYS, PA	US	15857
04828	TINNERMAN PRODUCTS INC	CLEVELAND, OH	US	44101
04830	STEWART STAMPING CORP	YONKERS, NY	US	10704
04853	VARFLEX CORP	ROME, NY	US	13440
04880	ZIERICK MFG CO	MT KISCO, NY	US	10549
04935	MEPCO ELECTRA CORP	MORRISTOWN, NJ	US	07960
04939	SCHNITZER ALLOY PRODUCTS CO	ELIZABETH, NJ	US	07206
04977	ITT CORP COMPONENTS DIV	NEW YORK, NY	US	10022
04990	GRAYHILL INC	LA GRANGE, IL	US	60525
05016	MONITOR PRODUCTS CO INC	OCEANSIDE, CA	US	92054
05065	TEXAS INSTRUMENTS INC	ATTLEBORO, MA	US	02703
05088	VARO INC	GARLAND, TX	US	75046
05098	VICTORY ENGINEERING CORP	SPRINGFIELD, NJ	US	07081
05108	KULKA-SMITH INC	MANASQUAN, NJ	US	08736
05131	ELECTRONIC DEVICES INC	YONKERS, NY	US	10710
05160	VRN INTERNATIONAL	ST PETERSBURG, FL	US	33710
05176	AMERICAN SHIZUKI CORP	CANOGA PARK, CA	US	91304
05232	BRADY W H CO	MILWAUKEE, WI	US	53209
05293	PRECISION METAL PRODUCT CO	STONEHAM, MA	US	02180
05347	UNIMICA	NEW YORK, NY	US	10013
05350	WILMINGTON FIBRE SPECIALTY CO	NEW CASTLE, DE	US	19720
05364	LITTON PRECISION PROD INC	VAN NUYS, CA	US	91409

Table 1-10. Manufacturers Code List (continued)

Mfr Code	Manufacturer Name	Address	Country	ZIP Code
05368	FCP INC	OLATHE, KS	US	66062
05400	REESE J RAMSEY INC	NEW YORK, NY	US	10007
05436	BURR-BROWN CORP	TUCSON, AZ	US	85706
05447	BERGQUIST CO	MINNEAPOLIS, MN	US	55420
05453	ICO-RALLY CORP	SUNNYVALE, CA	US	94303
05461	ITT HARPER INC	MORTON GROVE, IL	US	60053
05466	EMHART CORP	FARMINGTON, CT	US	06032
05507	MILLER DIAL & NAMEPLATE CO	EL MONTE, CA	US	91734
05518	AUGAT INC	MANSFIELD, MA	US	02048
05524	DALE ELECTRONICS INC	COLUMBUS, NE	US	68601
05535	KEYSTONE ELECTRONICS CORP	NEW YORK, NY	US	10012
05545	NATIONAL TEL TRONICS CORP	YONKERS, NY	US	10701
05559	ALPHA WIRE CORP	ELIZABETH, NJ	US	07207
05568	JACOBSON MFG CO INC	KENILWORTH, NJ	US	07033
05589	UNIFORM TUBES	COLLEGEVILLE, PA	US	19426
05623	CAMDEN WIRE CO INC	CAMDEN, NY	US	13316
05630	WESTON COMPONENTS	ARCHBALD, PA	US	18403
05648	MAGNECRAFT ELECTRIC CO	CHICAGO, IL	US	60630
05661	ALCO ELECTRONIC PRODUCTS INC	NORTH ANDOVER, MA	US	01845
05668	VITRAMON INC	MONROE, CT	US	06468
05683	WECKESSER CO INC	CHICAGO, IL	US	60641
05704	SAN FERNANDO ELECTRIC MFG CO	SAN FERNANDO, CA	US	91341
05742	P C A ELECTRONICS INC	SEPULVEDA, CA	US	91343
05768	MALCO-A MICRODOT CO	PASADENA, CA	US	91030
05769	ITT SEAELECTRO CORP	TRUMBULL, CT	US	06611
05792	INTL ELECTRONIC RESEARCH CORP	BURBANK, CA	US	91502
05809	MARSHALL IND CAPACITOR DIV	MONROVIA, CA	US	91016
05826	AMER PRCN IND INC DELEVAN DIV	AURORA, NY	US	14052
05879	AMPHENOL CORPORATION	DANBURY, CT	US	06810
05917	RIFA AB	STOCKHOLM	SW	S-163
05943	TEXAS INSTRUMENTS DEUTSCHLAND GMBH	FREISING	GM	8050
05946	VALVO GMBH	HAMBURG	GM	2000
05951	WICKMANN-WERKE A G	WITTEN-ANNEN	GM	5870
05959	MARQUARDT GMBH	RIETHEIM	GM	D-720
05967	VTM A/S	GLOSTRUP	DK	2080
05982	CELDUC CONSTR ELECTRIQUES DU CENTRE	SORBIERS	FR	42
05985	SESCOSEM	SAINT EGREVE	FR	75781
05992	EFCO COMPOSANTS	NANTERRE	FR	
05993	CORNING GLASS EUROPE SOVCOR	LE VESINET	FR	

Table 1-10. Manufacturers Code List (continued)

Mfr Code	Manufacturer Name	Address	Country	ZIP Code
06003	SESCOSEM (63)	PARIS	FR	75781
06032	STC/STANTEL	DEVON	EG	
06039	SEAELECTRO LTD	PORTSMOUTH	EG	
06058	BOURNS TRIMPOT LTD	MIDDLESEX	EG	
06118	ROEDERSTEIN/RESISTA GMBH	LANDSHUT	GM	8300
06121	SIEMENS AG	MUNICH	GM	8000
06127	WIMA	MANNHEIM	GM	6800
06252	AB ELEKTRONIK GMBH	SALZBURG	AU	A-501
06328	SCHURTER AG	LUZERN	SW	CH-60
06330	CONDENSATEURS FRIBOURG S A	FRIBOURG	SW	
06337	PHILLIPS GLOEILAMPENFABRIEKEN N V	EINDHOVEN	HL	
06344	FUJITSU MICROELECTRONICS INC	SANTA CLARA, CA	US	95054
06347	HITACHI AMERICA LTD	SUNNYVALE, CA	US	94086
06352	TDK CORPORATION OF AMERICA	SKOKIE, IL	US	60076
06354	TOSHIBA CORP	TOKYO	JP	
06424	E-SIL COMPONENTS LTD	SUNDERLAND	EG	SR4 6
06501	BARBER & COLEMAN LTD	SALE CHES	EG	
06563	SIEMENS CORP COMPONENTS GROUP	SCOTTSDALE, AZ	US	85252
06650	AEG-TELEFUNKEN	HEILBRONN	GM	7100
06665	SAMTEC	NEW ALBANY, IN	US	47150
06784	MIDWEST COMPONENTS	MUSKEGON, MI	US	49443
06857	TRAK MICROWAVE CORP	TAMPA, FL	US	33614
06860	HUBER & SUHNER AG	HERISAU	SW	
06900	JUDD WIRE	BURLINGTON, MA	US	01803
06916	SONY CORP	TOYKO	JP	141
06951	TRW RESISTIVE PRODUCTS DIV	CORPUS CHRISTI, TX	US	78411
07041	R.A.F. ELECTRONIC HARDWARE INC	STRATFORD, CT	US	06497
07050	MICRO POWER SYSTEMS	SANTA CLARA, CA	US	95050
07158	EATON CORP	CLEVELAND, OH	US	44144
07179	AAVID ENGINEERING INC	LACONIA, NH	US	03247
07221	SUPERTEX INC	SUNNYVALE, CA	US	94086
07284	PAKTRON DIV ITW	VIENNA, VA	US	22180
07338	J K L COMPONENTS CORP	LOS ANGELES, CA	US	90064
07379	SAN-O INDUSTRIAL CORP	BOHEMIA LI, NY	US	11716
07398	BEL FUSE INC	JERSEY CITY, NJ	US	07302
07477	AMERICAN OIL & SUPPLY CO	NEWARK, NJ	US	07105
07766	LA RADIOTECHNIQUE COMPELEC	VILLEVRBANNE	FR	
07798	REMTEK CORP	SUNNYVALE, CA	US	
08097	SPRAGUE-GOODMAN ELECTRONICS	NEW HYDE PARK, NY	US	11040

Table 1-10. Manufacturers Code List (continued)

Mfr Code	Manufacturer Name	Address	Country	ZIP Code
08113	KAHGAN ELECTRONICS CORP	HEMPSTEAD, NY	US	11550
08123	COIL-Q CORP	BRONXVILLE, NY	US	
08259	DALE ELECTRONICS INC	TEMPE, AZ	US	85252
08261	STAR MICRONICS INC	NEW YORK, NY	US	
08335	SOURIAU INC	SAUGUS, CA	US	95203
08369	FILECA	STE GENEVIEVE	FR	
08560	OXLEY DEV LTD	CUMBRIA	EG	
08666	PANEL COMPONENTS CORP	SANTA ROSA, CA	US	
08709	PANASONIC INDUSTRIAL CO	SECAUCUS, NJ	US	07094
08778	MADISON CABLE CORP	WORCHESTER, MA	US	01603
08779	MITSUBISHI ELECTRONICS AMERICA	SUNNYVALE, CA	US	94086
08781	CATALYST RESEARCH CORP	BALTIMORE, MD	US	
08810	ROCKWELL INTERNATIONAL	ANAHEIM, CA	US	
08838	AND (ALPHA NUMERIC DISPLAYS)	BURLINGAME, CA	US	
08852	METELICS CORP	SUNNYVALE, CA	US	
09043	GLOW-LITE DIV OF DUTCH BOY	PAULS VALLEY, OK	US	
09050	XENELL	WYNNEWOOD, OK	US	
09126	ASJ PTE LTD	JURONG TOWN	SG	
09171	RHOMBUS INDUSTRIES INC	HUNTINGTON BEACH, CA	US	92649
09226	NEC ELECTRONICS INC	SANTA CLARA, CA	US	
09235	FOX ELECTRONICS	FT MEYERS, FL	US	33910
09283	TOPAZ SEMICONDUCTOR	SAN JOSE, CA	US	95132
09441	APPLIED ENGINEERING PRODUCT CO	HAMDEN, CT	US	
09448	WAMCO INC	FOUNTAIN VALLEY, CA	US	
09454	PRECISION RESISTIVE PRODS INC	MEDIAPOLIS, IA	US	52637
09507	HP DIV 53 SAD	ROHNERT PARK, CA	US	94928
09538	TUSONIX	TUCSON, AZ	US	85740
09694	ELECTRONIC ESSENTIALS	WOODSIDE, NY	US	
09849	NDK AMERICA INC	CUPERTINO, CA	US	54014
09855	KOWASANGYO CORP	TOKYO	JP	
09859	CERA-MITE CORP	GRAFTON, WI	US	53024
09862	HITACHI CABLE LTD	TOKYO	JP	
09914	UNITRODE CORP	LEXINGTON, MA	US	
09939	MURATA ERIE NORTH AMERICA INC	SMYRNA, GA	US	30080
09955	BOYD CORP	DENVER, CO	US	
10183	TADIRAN	TEL-AVIV	IS	
10200	ELECTRONIC CONCEPTS INC	EATONTOWN, NJ	US	
10290	COMMODORE SEMICONDUCTOR GROUP	NORRISTOWN, PA	US	
10302	CENTENNIAL PLASTICS	YELLVILLE, AR	US	

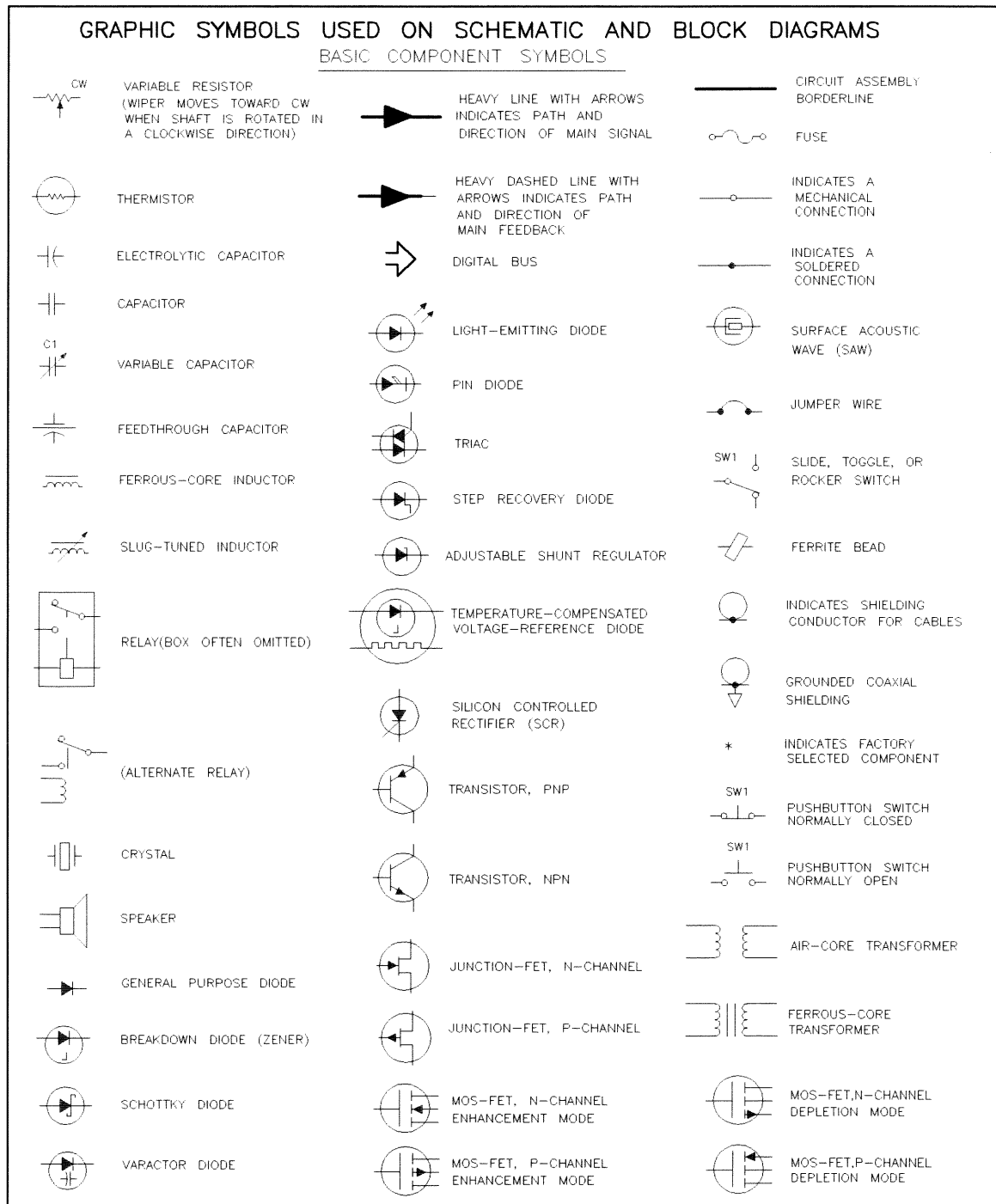
Table 1-10. Manufacturers Code List (continued)

Mfr Code	Manufacturer Name	Address	Country	ZIP Code
10358	VOGT AG	LOSTORF	GM	
10401	NEW SYSTEMS MOLDING CORP	LOVELAND, CO	US	80537
10407	LSI LOGIC CORP	MILPITAS, CA	US	95035
10421	EPSON	TORRENCE, CA	US	
10443	HP DIV 64 NID	CORVALLIS, OR	US	
10456	PLASTEC PRODUCTS INC	FORT COLLINS, CO	US	
10457	JERMYN INDUSTRIES LTD (63)	KENT SEVENOAKS	EG	
10481	DALE ELECTRONICS INC	NORFOLK, NE	US	68701
10549	SCI MANUFACTURING INC	HUNTSVILLE, AL	US	35805
10572	XICOR, INC	MILPITAS, CA	US	
10631	GASKET SPECIALTIES	BRISBANE, CA	US	
10784	SHINNITTOKU ELECTRIC CO LTD	MINATO-KU TOKYO	JP	145
10795	STANDEX - PAUL SMITH DIVISION	CINCINNATI, OH	US	
10858	LINEAR TECHNOLOGY CORP	MILPITAS, CA	US	95035
10881	THOMSON-CSF	COURBEVOIE	FR	
10905	FIRA	LYON	FR	
11047	TEKA PRODUCTS INC	WOODSIDE, NY	US	
11111	SEEQ TECHNOLOGY INC	SAN JOSE, CA	US	
11171	SYNERGY MICROWAVE CORP	FAIRFIELD, NJ	US	
11187	VLSI TECHNOLOGY INC	SAN JOSE, CA	US	95131
11212	INDUCTOR SUPPLY, INC.	HUNTINGTON BEACH, CA	US	
11248	MICRON DIV OF R G ALLEN CO INC	NORTH HOLLYWOOD, CA	US	
11263	W GUNTHER GMBH	NURNBERG	GM	
11298	AVEL-LINDBURG	DANBURY	CT	
11345	CYPRESS SEMICONDUCTOR CORP	SAN JOSE, CA	US	95134
11357	BRISTOL ROYAL WORKSHOP BLIND	BRISTOL	EG	
11412	ISOLANTITE MFG COMPANY INC	STIRLING, NJ	US	
11421	KYOCERA CORPORATION	KYOTO	JP	
11599	MICRO-COAX COMPONENTS, INC	COLLEGEVILLE, PA	US	19426
11677	SARONIX	PALO ALTO, CA	US	
11684	JOSLYN DEFENSE SYSTEMS INC	BURLINGTON, VT	US	05401
11686	KYUSHU DENTSU CO LTD	NAGASAKI	JP	
11699	CENTRAL SEMICONDUCTOR CORP	HAUPPAUGE, NY	US	11788
11703	POWER GENERAL	CANTON, MA	US	
11708	THOMSON SEMICONDUCTORS	VELIZY VILLACOU	FR	78140
11723	CTL COMPONENTS LTD	LONDON	EG	SW19
11781	MIDLAND-ROSS CORP	LIVINGSTON, NJ	US	07039
11844	ELECTREY S A	MONTERREY	MX	64000
11892	EVOX/RIFA INC	LINCOLNSHIRE, IL	US	60015

Table 1-10. Manufacturers Code List (continued)

Mfr Code	Manufacturer Name	Address	Country	ZIP Code
11920	MIYAMA DENSEN CO LTD	TOKYO	JP	
11946	BKC INTERNATIONAL ELECTRONICS	LAWRENCE, MA	US	01841
11961	ALEXCO ENGINEERING SUPPLIES	COWDENBEATH	EG	KY4 9
11981	POWEREX	YOUNGWOOD, PA	US	15697
12125	SAMSUNG SEMICONDUCTOR INC	SANTA CLARA, CA	US	95054
12127	RF MONOLITHICS INC	DALLAS, TX	US	75234
12131	PRESIDIO COMPONENTS INC	SAN DIEGO, CA	US	92121
12186	DALLAS SEMICONDUCTOR CORP	DALLAS, TX	US	75244
12213	STACKPOLE ELECTRONICS INC	RALEIGH, NC	US	27620
12261	ERIE SPECIALTY PRODUCTS INC	ERIE, PA	US	16512
12340	KEMET ELECTRONICS CORPORATION	GREENVILLE, SC	US	29606
12355	INTERCONNECTION PRODUCTS INC	SANTA ANA, CA	US	92707
12382	LATTICE SEMICONDUCTOR CORP	BEAVERTON, OR	US	97006
12395	FEI MICROWAVE, INC.	SUNNYVALE, CA	US	94086
12418	OWL WIRE AND CABLE	CANASTATA, NY	US	13032
12456	WIRE PRO INC	SALEM, NJ	US	08079
12465	INTERNATIONAL POWER DEVICES	BRIGHTON, MA	US	02135
12473	AVX-RALEIGH DIVISION	RALEIGH, NC	US	27604
12482	BRADFORD ELECTRONICS INC	BRADFORD, PA	US	16701
12513	BUNNELL PLASTICS, INC	MICKLETON, NJ	US	08056
12516	MICROTRONICS ASSOCIATES PTE LTD	SINGAPORE	SG	1334
12580	SOUTH AMERICAN DEVELOPMENT CO	HYDE PARK, NY	US	12538
12656	BEYSCHLAG GMBH	HEIDE	GM	
12703	CHAMPION TECHNOLOGIES INC	FRANKLIN PARK, IL	US	60131
12830	KETEMA	BENSALEM, PA	US	19020
12845	WARTH INTERNATIONAL LTD	EAST GRINSTEAD	EG	RH192
12896	DOWKEY MICROWAVE INC	VENTURA, CA	US	93003

Graphics Symbols



symbols1

Figure 1-1. Graphic Symbols (1 of 2)

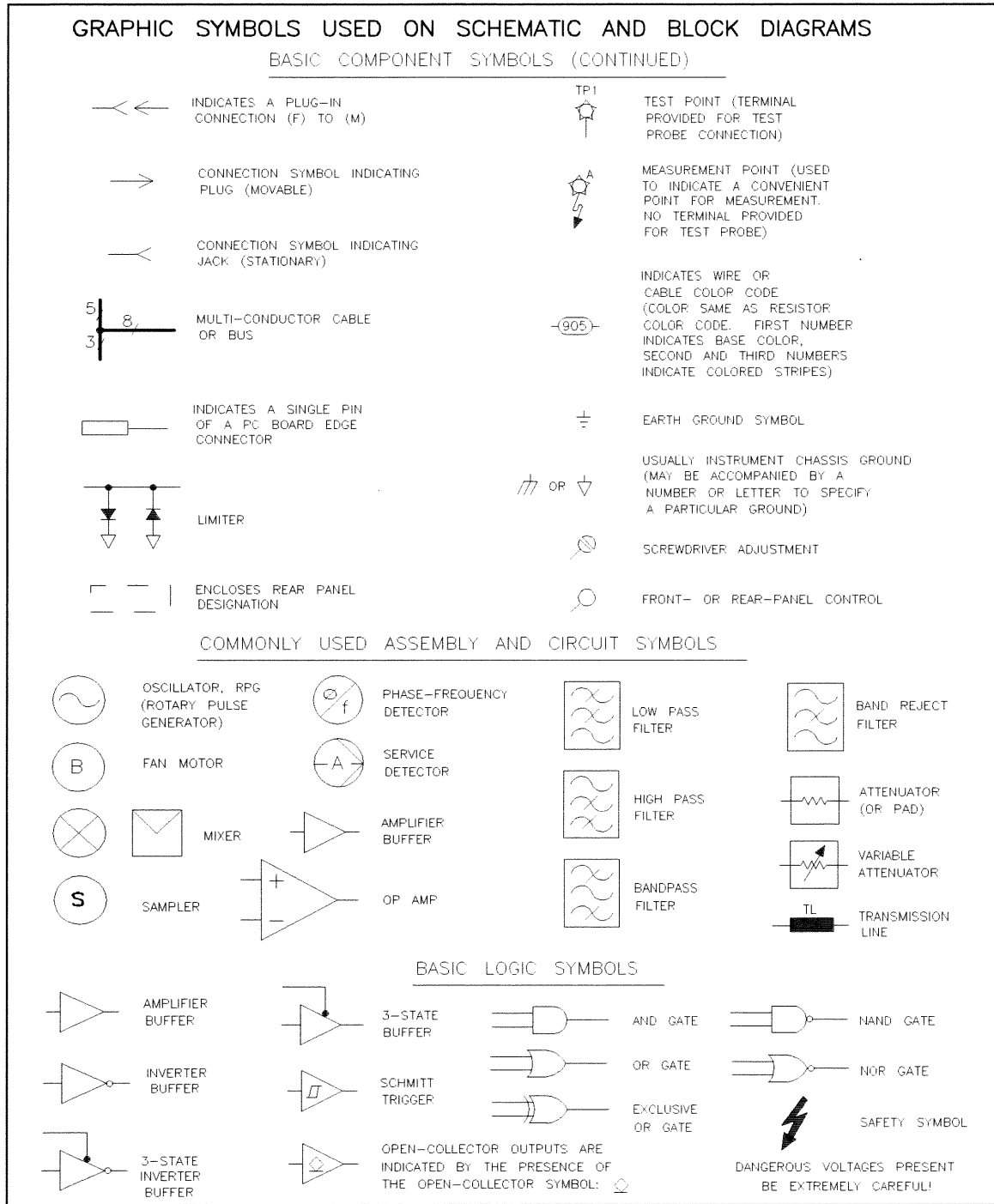


Figure 1-2. Graphic Symbols (2 of 2)

Component-Level Information Packet for 70425-60113

A1A1 Front Panel Board



**HP Part No. 70425-60113
Printed in USA September 1995**

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Table 1-1. Replaceable Parts

Reference Designation	HP Part Number	C D	Qty.	Description	Mfr. Code	Mfr. Part Number
A1A1						
A1A1	70425-60113	8	1	BD AY-FRONT PNL	28480	70425-60113
C1	0160-4832	4	1	CAP-FXD 0.01uF +-10% 100 V CER X7R	09939	RPA10X7R103K100V
DS1	1990-1130	9	1	LED-LIGHT BAR LUM-INT = 560UCD IF = 20MA-MAX	00746	LD-101YY
DS2	1990-1130	9	1	LED-LIGHT BAR LUM-INT = 560UCD IF = 20MA-MAX	00746	LD-101YY
DS3	1990-1130	9	1	LED-LIGHT BAR LUM-INT = 560UCD IF = 20MA-MAX	00746	LD-101YY
DS4	1990-1130	9	1	LED-LIGHT BAR LUM-INT = 560UCD IF = 20MA-MAX	00746	LD-101YY
DS5	1990-1131	0	1	LED-LIGHT BAR LUM-INT = 1.4MCD IF = 25MA-MAX	00746	LD-101MG
DS6	1990-1129	6	1	LED-LIGHT BAR LUM-INT = 900UCD BVR = 3V	00746	LD-101UR
DS7	1990-1130	9	1	LED-LIGHT BAR LUM-INT = 560UCD IF = 20MA-MAX	00746	LD-101YY
J1	1252-0790	1	1	CONN-POST TYPE .100-PIN-SPCG 16-CONT	04726	3408-6202
MP1	70425-20113	4	1		28480	70425-20113
MP2	7121-4611	2	1	LABEL-INFORMATION .15-IN-WD .6-IN-LG	09002	

†Refer to Section 7 for update information.

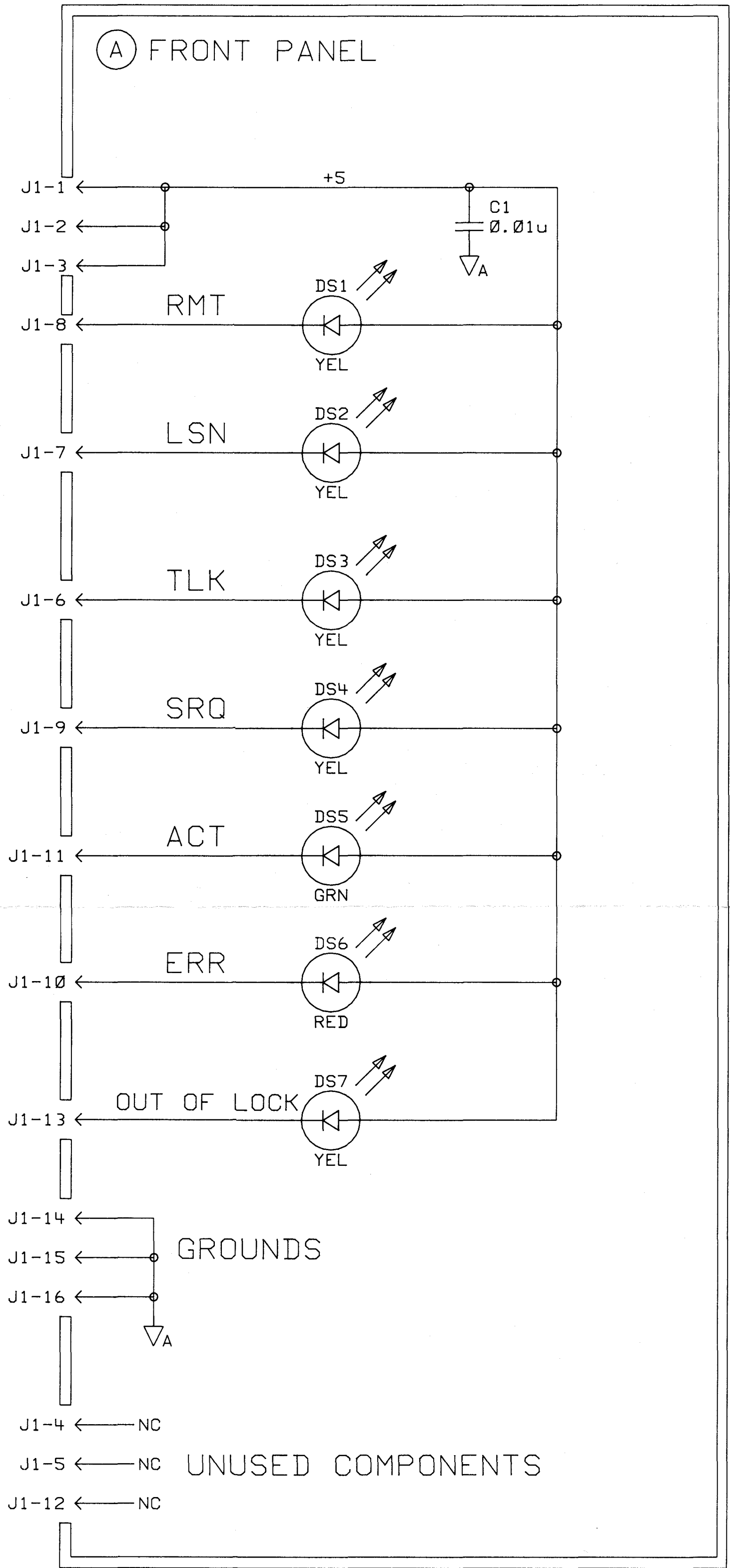
*Factory Selected Component (Refer to Section 5).

Δ Errata part change.

A-071392-10

B-70425-60113-1

SYM	REVISIONS	APPROVED	DATE
A	A AS ISSUED	F. YECK/AB	07/13/92



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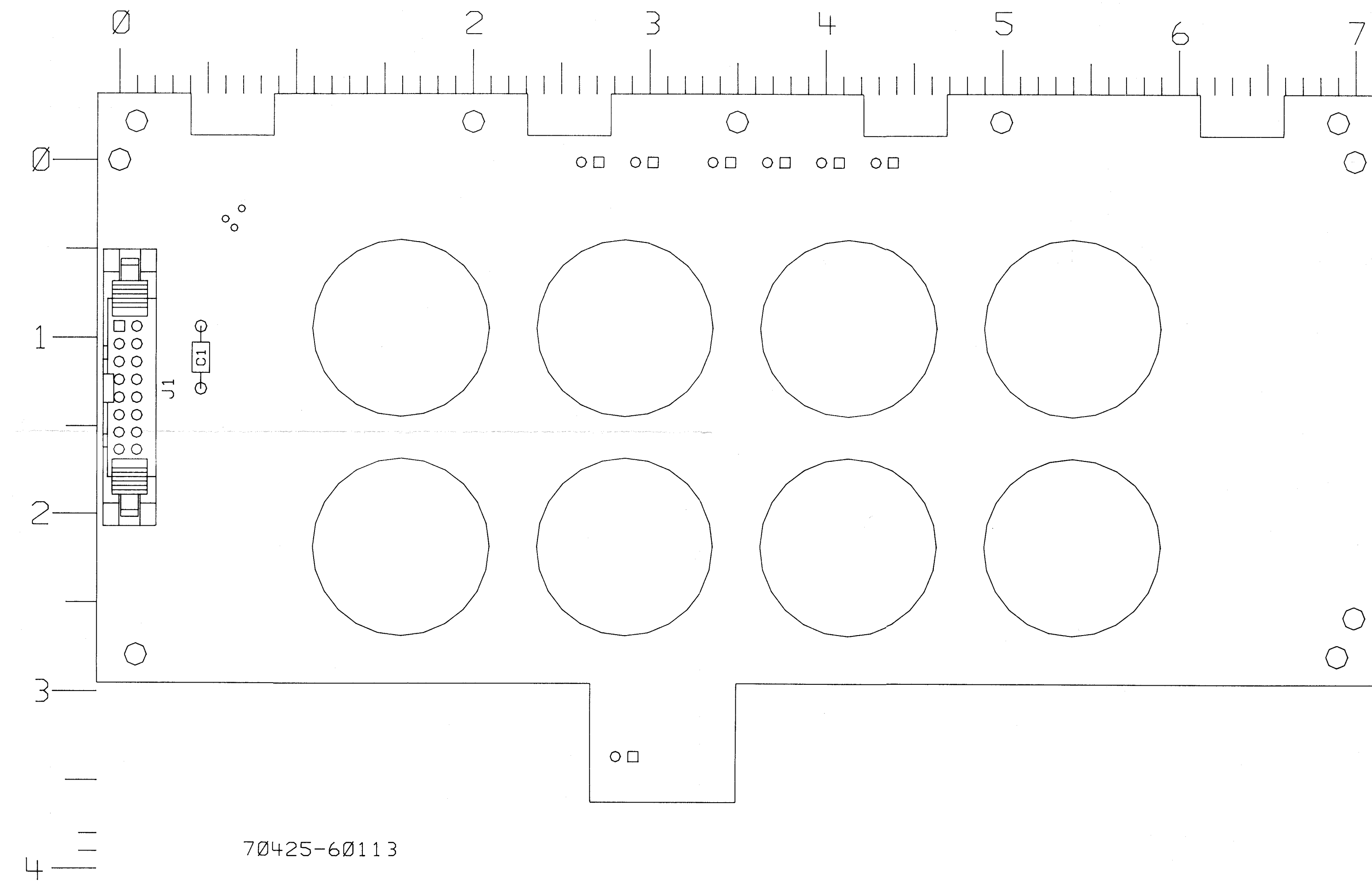
PAM AYERS DRAWN BY	10MAY90 DATE
FRANK YECK ENGINEER/CHECKER	10MAY90 DATE
TAMMY RISA RELEASE TO PROD.	7/13/92 DATE
SUPERSEDES DWG.	

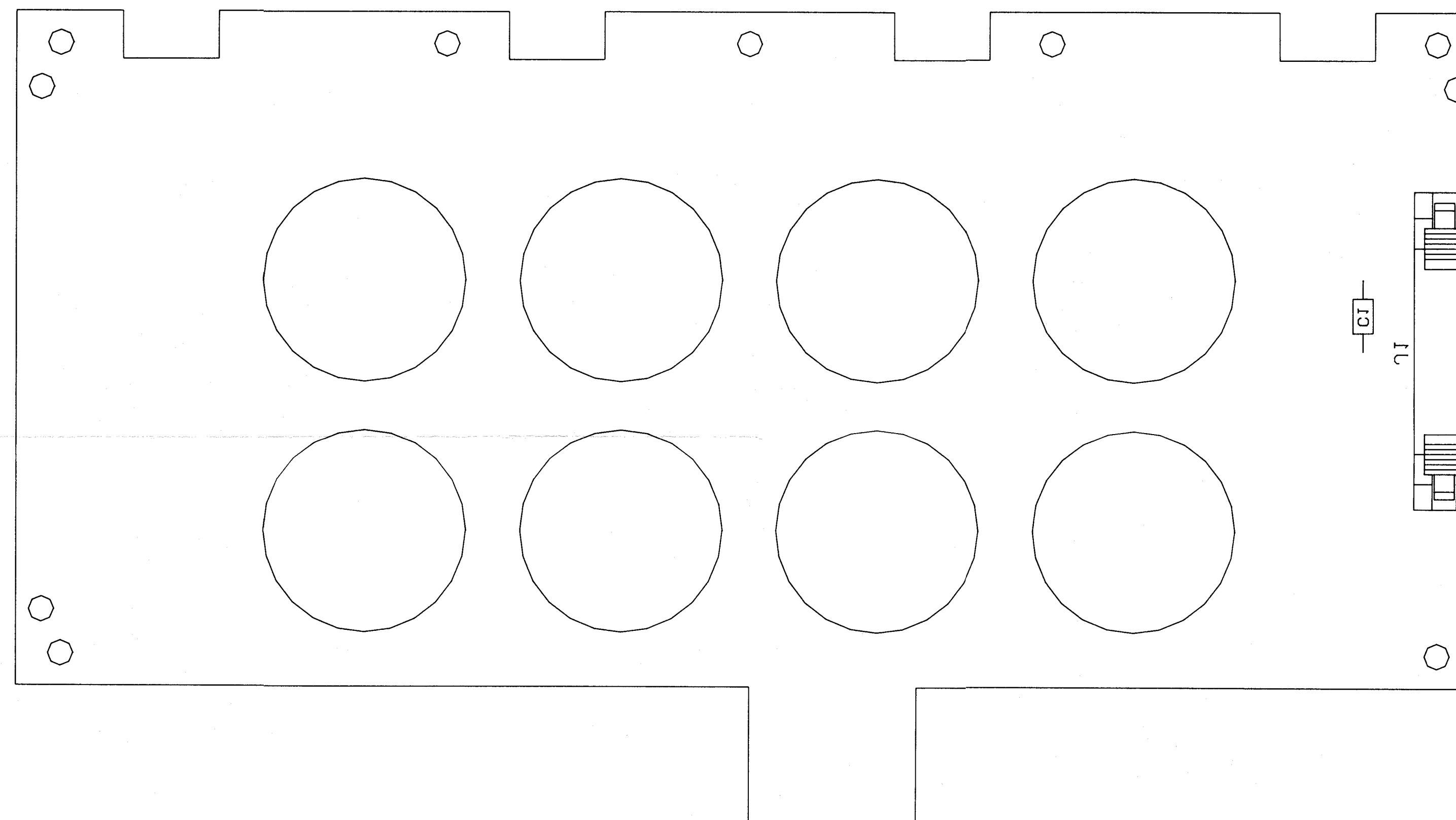
SCHEMATIC, PWA

FRONT
PANEL BOARD

TITLE

s1bby113 FILENAME	HEWLETT PACKARD
SCALE NONE	
SHEET 1 OF 1	70425-60113 PART NUMBER
B-70425-60113-1	





70425-60113 BACK

Component-Level Information Packet for 70427-60101

A3 AM Detector Filter



**HP Part No. 70427-61804
Printed in USA September 1995**

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Table 1-1. Replaceable Parts

Reference Designation	HP Part Number	C D	Qty.	Description	Mfr. Code	Mfr. Part Number
A3						
A3	70427-60101	6	1		28480	70427-60101
C1	0180-4287	5	1	CAP-FXD 10uF + -20% 35 V TA	28480	0180-4287
C2	0180-4287	5	1	CAP-FXD 10uF + -20% 35 V TA	28480	0180-4287
C3	0180-4228	4	1	CAP-FXD 47uF + -20% 10 V TA	28480	0180-4228
C4				NOT ASSIGNED		
C5	0180-3731	2	1	CAP-FXD 1000uF + -20% 10 V AL-ELCTLT	28480	0180-3731
C6	0180-3731	2	1	CAP-FXD 1000uF + -20% 10 V AL-ELCTLT	28480	0180-3731
C7	0180-3731	2	1	CAP-FXD 1000uF + -20% 10 V AL-ELCTLT	28480	0180-3731
C8	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C9 - C17				NOT ASSIGNED		
C18	0160-5469	5	1	CAP-FXD 1uF + -10% 50 V POLYE-MET	06119	MKT 1826-1UF 10% 63VDC
C19	0160-5971	4	1	CAP-FXD 4.7pF + -10.64% 50 V CER C0G	09939	GRM40-001C0G4R7D050C
C20	0180-4287	5	1	CAP-FXD 10uF + -20% 35 V TA	28480	0180-4287
C21	0180-4287	5	1	CAP-FXD 10uF + -20% 35 V TA	28480	0180-4287
C22	0180-4287	5	1	CAP-FXD 10uF + -20% 35 V TA	28480	0180-4287
C23	0180-4287	5	1	CAP-FXD 10uF + -20% 35 V TA	28480	0180-4287
C24	0180-4228	4	1	CAP-FXD 47uF + -20% 10 V TA	28480	0180-4228
C25	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C26	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C27	0160-6222	0	1	CAP-FXD 0.1uF + -10% 50 V CER X7R	09939	GRM42-2X7R104K050V
C28	0160-6222	0	1	CAP-FXD 0.1uF + -10% 50 V CER X7R	09939	GRM42-2X7R104K050V
C29	0160-6736	1	1	CAP-FXD 0.01uF + -10% 50 V CER X7R	09939	GRM42-602X7R103K050C
C30	0160-6736	1	1	CAP-FXD 0.01uF + -10% 50 V CER X7R	09939	GRM42-602X7R103K050C
C31	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C32	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C33	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C34	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C35	0160-5959	8	1	CAP-FXD 33pF + -5% 50 V CER C0G	09939	GRM40-001C0G330J050C
C36	0160-6222	0	1	CAP-FXD 0.1uF + -10% 50 V CER X7R	09939	GRM42-2X7R104K050V
C37	0160-6222	0	1	CAP-FXD 0.1uF + -10% 50 V CER X7R	09939	GRM42-2X7R104K050V
C38	0160-6731	6	1	CAP-FXD 1000pF + -10% 50 V CER X7R	09939	GRM42-602X7R102K050C
C39	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
CR1	1901-0880	7	1	DIODE-GEN PRP 200MA DO-35	28480	1901-0880
CR2	1901-0880	7	1	DIODE-GEN PRP 200MA DO-35	28480	1901-0880
CR3	1900-0072	7	1	DIODE-SCHOTTKY SM SIG	28480	1900-0072
CR4	1901-1227	8	1	DIODE-SWITCHING 75V 200MA 6NS TO-236	28480	1901-1227
CR5	1901-1227	8	1	DIODE-SWITCHING 75V 200MA 6NS TO-236	28480	1901-1227
J1	1250-2090	4	1	CONNECTOR-RF SMC PLUG PC-W-STDFS 50-OHM	28480	1250-2090
J2	1250-2090	4	1	CONNECTOR-RF SMC PLUG PC-W-STDFS 50-OHM	28480	1250-2090
J3	1252-2401	5	1	CONN-RECT D-SUBMIN 15-CKT 15-CONT	01380	868956-1
J4	1250-2090	4	1	CONNECTOR-RF SMC PLUG PC-W-STDFS 50-OHM	28480	1250-2090
K1	0490-1549	3	1	RELAY-REED 1C 250MA 150VDC 5VDC-COIL 3VA	04501	2900-0044
L1	9140-1123	7	1	INDUCTOR 220UH + -5% .134W-INX.189LG-IN	28480	9140-1123
L2	9140-1123	7	1	INDUCTOR 220UH + -5% .134W-INX.189LG-IN	28480	9140-1123
L3	9140-1123	7	1	INDUCTOR 220UH + -5% .134W-INX.189LG-IN	28480	9140-1123
L4	9140-1202	3	1	INDUCTOR 47NH + -5% 2.8W-MMX3.4LG-MM Q=26	03273	SM3-047J
L5	9140-1123	7	1	INDUCTOR 220UH + -5% .134W-INX.189LG-IN	28480	9140-1123

†Refer to Section 7 for update information.

*Factory Selected Component (Refer to Section 5).

Δ Errata part change.

Table I-1. Replaceable Parts

Reference Designation	HP Part Number	C D	Qty.	Description	Mfr. Code	Mfr. Part Number
L6	9140-1123	7	1	INDUCTOR 220UH +.5% .134W-INX.189LG-IN	28480	9140-1123
L7	9140-1123	7	1	INDUCTOR 220UH +.5% .134W-INX.189LG-IN	28480	9140-1123
L8	9140-1123	7	1	INDUCTOR 220UH +.5% .134W-INX.189LG-IN	28480	9140-1123
L9	9140-1123	7	1	INDUCTOR 220UH +.5% .134W-INX.189LG-IN	28480	9140-1123
L10	9140-1202	3	1	INDUCTOR 47NH +.5% 2.8W-MMX3.4LG-MM Q=26	03273	SM3-047J
MP1	70427-20101	2	1		28480	70427-20101
MP2	7121-4611	2	1	LABEL-INFORMATION .15-IN-WD .6-IN-LG	09002	
MP3	08645-21011	8	1		28480	08645-21011
MP4	0380-2079	3	1	STANDOFF-HEX .312-IN-LG .187-IN-A/F SST	02121	SS9412-01
MP5	0380-2079	3	1	STANDOFF-HEX .312-IN-LG .187-IN-A/F SST	02121	SS9412-01
MP6	0340-1098	0	1	INSULATOR-IC B-NITRIDE	02923	
MP7	0340-1098	0	1	INSULATOR-IC B-NITRIDE	02923	
MP8	0340-1098	0	1	INSULATOR-IC B-NITRIDE	02923	
MP9	2190-0584	0	1	WASHER-LK HLCL 3.0 3.1-MM-ID 6.2-MM-OD	06691	
MP10	2190-0584	0	1	WASHER-LK HLCL 3.0 3.1-MM-ID 6.2-MM-OD	06691	
MP11	3050-0891	7	1	WASHER-FL MTLCL 3.0 3.3-MM-ID 6.85-MM-OD	06691	
MP12	3050-0891	7	1	WASHER-FL MTLCL 3.0 3.3-MM-ID 6.85-MM-OD	06691	
MP13	2950-0078	9	1	NUT-HEX-DBL-CHAM 10-32-THD .067-IN-THK	04637	500220
MP14	2950-0078	9	1	NUT-HEX-DBL-CHAM 10-32-THD .067-IN-THK	04637	500220
MP15	2950-0078	9	1	NUT-HEX-DBL-CHAM 10-32-THD .067-IN-THK	04637	500220
MP16	2190-0124	4	1	WASHER-LK INTL T NO. 10 .195-IN-ID	05769	3002-26
MP17	2190-0124	4	1	WASHER-LK INTL T NO. 10 .195-IN-ID	05769	3002-26
MP18	2190-0124	4	1	WASHER-LK INTL T NO. 10 .195-IN-ID	05769	3002-26
MP19	70427-00004	2	1		28480	70427-00004
R1	0757-0416	7	1	RESISTOR 511 +.1% .125W TF TC = 0 + -100	05524	CMF-55-1
R2	0699-1391	5	1	RESISTOR 10K +.1% .125W TKF TC = 0 + -100	06119	D25 10K OHM
R3	0699-1330	2	1	RESISTOR 100K +.1% .125W TKF TC = 0 + -100	06119	D25 100K OHM
R4	0699-1391	5	1	RESISTOR 10K +.1% .125W TKF TC = 0 + -100	06119	D25 10K OHM
R5	0699-1391	5	1	RESISTOR 10K +.1% .125W TKF TC = 0 + -100	06119	D25 10K OHM
R6	0699-1391	5	1	RESISTOR 10K +.1% .125W TKF TC = 0 + -100	06119	D25 10K OHM
R7	0699-1391	5	1	RESISTOR 10K +.1% .125W TKF TC = 0 + -100	06119	D25 10K OHM
R8	0699-1391	5	1	RESISTOR 10K +.1% .125W TKF TC = 0 + -100	06119	D25 10K OHM
R9	0699-1318	6	1	RESISTOR 1K +.1% .125W TKF TC = 0 + -100	06119	D25 1K OHM
R10	0699-1415	4	1	RESISTOR 100 +.1% .125W TKF TC = 0 + -100	06119	D25 100 OHM
R11	0698-3132	4	1	RESISTOR 261 +.1% .125W TF TC = 0 + -100	05524	CMF-55-1
R12	0757-0180	2	1	RESISTOR 31.6 +.1% .125W TF TC = 0 + -100	05524	CMF-55-1
R13	0757-0180	2	1	RESISTOR 31.6 +.1% .125W TF TC = 0 + -100	05524	CMF-55-1
R14	0699-1355	1	1	RESISTOR 28.7 +.1% .125W TKF TC = 0 + -100	06119	D25 28.7 OHM
R15	0699-1361	9	1	RESISTOR 51.1 +.1% .125W TKF TC = 0 + -100	06119	D25 51.1 OHM
R16	0699-1361	9	1	RESISTOR 51.1 +.1% .125W TKF TC = 0 + -100	06119	D25 51.1 OHM
R17	0699-1391	5	1	RESISTOR 10K +.1% .125W TKF TC = 0 + -100	06119	D25 10K OHM
R18	0699-1327	7	1	RESISTOR 1M +.1% .125W TKF TC = 0 + -100	06119	D25 1M OHM
R19	0699-1391	5	1	RESISTOR 10K +.1% .125W TKF TC = 0 + -100	06119	D25 10K OHM
R20	0699-1391	5	1	RESISTOR 10K +.1% .125W TKF TC = 0 + -100	06119	D25 10K OHM
R21	0699-1391	5	1	RESISTOR 10K +.1% .125W TKF TC = 0 + -100	06119	D25 10K OHM
R22	0699-1390	4	1	RESISTOR 9.09K +.1% .125W TKF TC = 0 + -100	06119	D25 9.09K OHM
R23	0699-1329	9	1	RESISTOR 6.19K +.1% .125W TKF TC = 0 + -100	06119	D25 6.19K OHM
R24	0699-1376	6	1	RESISTOR 2.15K +.1% .125W TKF TC = 0 + -100	06119	D25 2.15K OHM
R25	0699-1391	5	1	RESISTOR 10K +.1% .125W TKF TC = 0 + -100	06119	D25 10K OHM

†Refer to Section 7 for update information.

*Factory Selected Component (Refer to Section 5).

△ Errata part change.

Table 1-1. Replaceable Parts

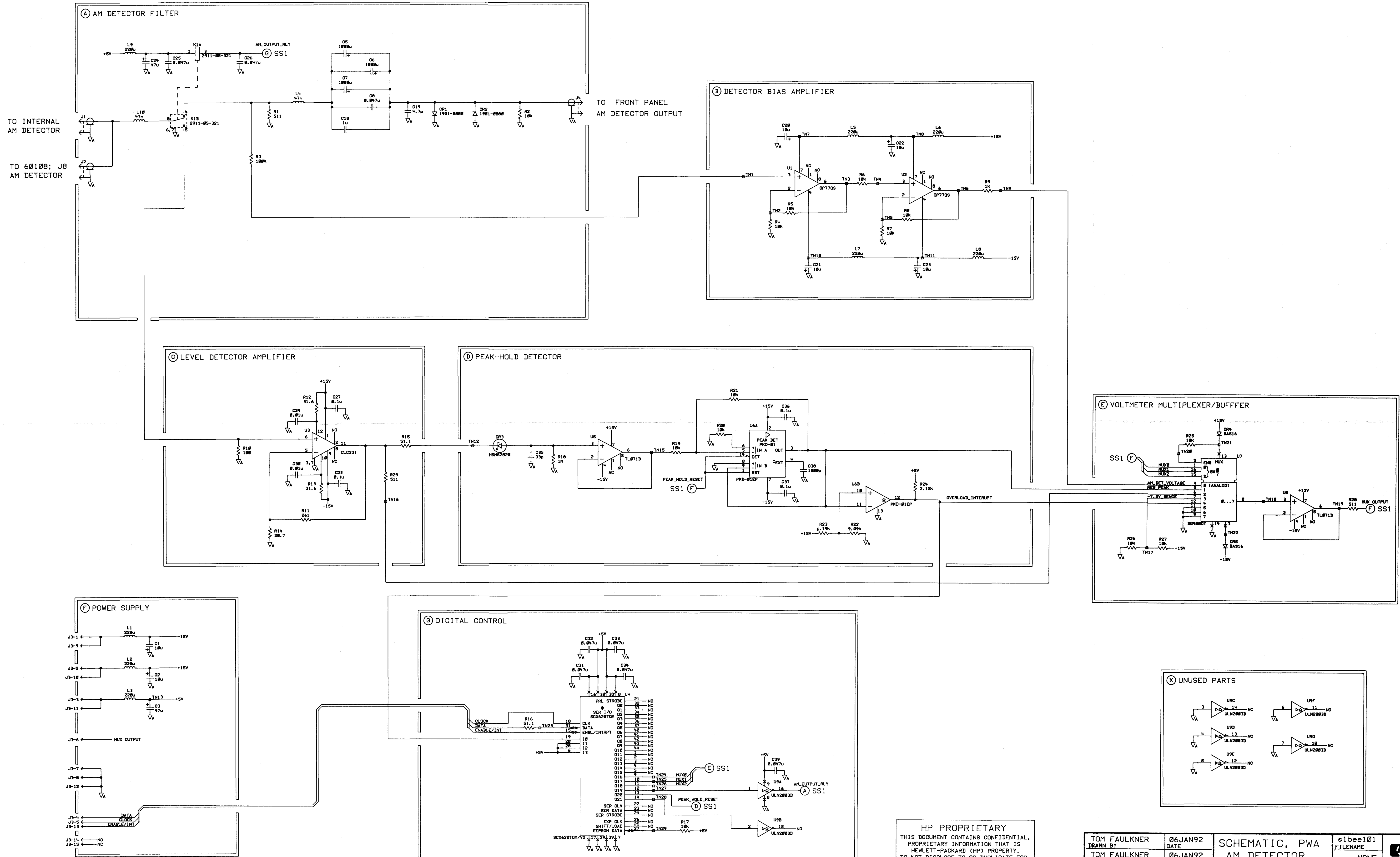
Reference Designation	HP Part Number	C D	Qty.	Description	Mfr. Code	Mfr. Part Number
R26	0699-1391	5	1	RESISTOR 10K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10K OHM
R27	0699-1391	5	1	RESISTOR 10K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10K OHM
R28	0699-1432	5	1	RESISTOR 511 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 511 OHM
R29	0699-1432	5	1	RESISTOR 511 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 511 OHM
U1	1826-2146	2	1	IC OP AMP PRCN SINGLE 8 PIN PLSTC-SOIC	28480	1826-2146
U2	1826-2146	2	1	IC OP AMP PRCN SINGLE 8 PIN PLSTC-SOIC	28480	1826-2146
U3	1826-2227	0	1	IC OP AMP HS 12 PIN TO-8	11604	CLC231AI
U4	1820-6752	2	1	IC-ASIC GT-ARY CMOS 6206 PLCC	28480	1820-6752
U5	1826-1810	5	1	IC OP AMP LOW-BIAS-HMPD SINGLE 8 PIN	28480	1826-1810
U6	1826-1189	1	1	PEAK DETECTOR 14 -DIP-P	28480	1826-1189
U7	1826-2147	3	1	ANALOG MULTIPLEXER 8 CHNL 16 -P-SOIC	28480	1826-2147
U8	1826-1810	5	1	IC OP AMP LOW-BIAS-HMPD SINGLE 8 PIN	28480	1826-1810
U9	1858-0104	5	1	IC-INTERFACE DRV R BIPOLAR PERIPHERAL	28480	1858-0104

†Refer to Section 7 for update information.

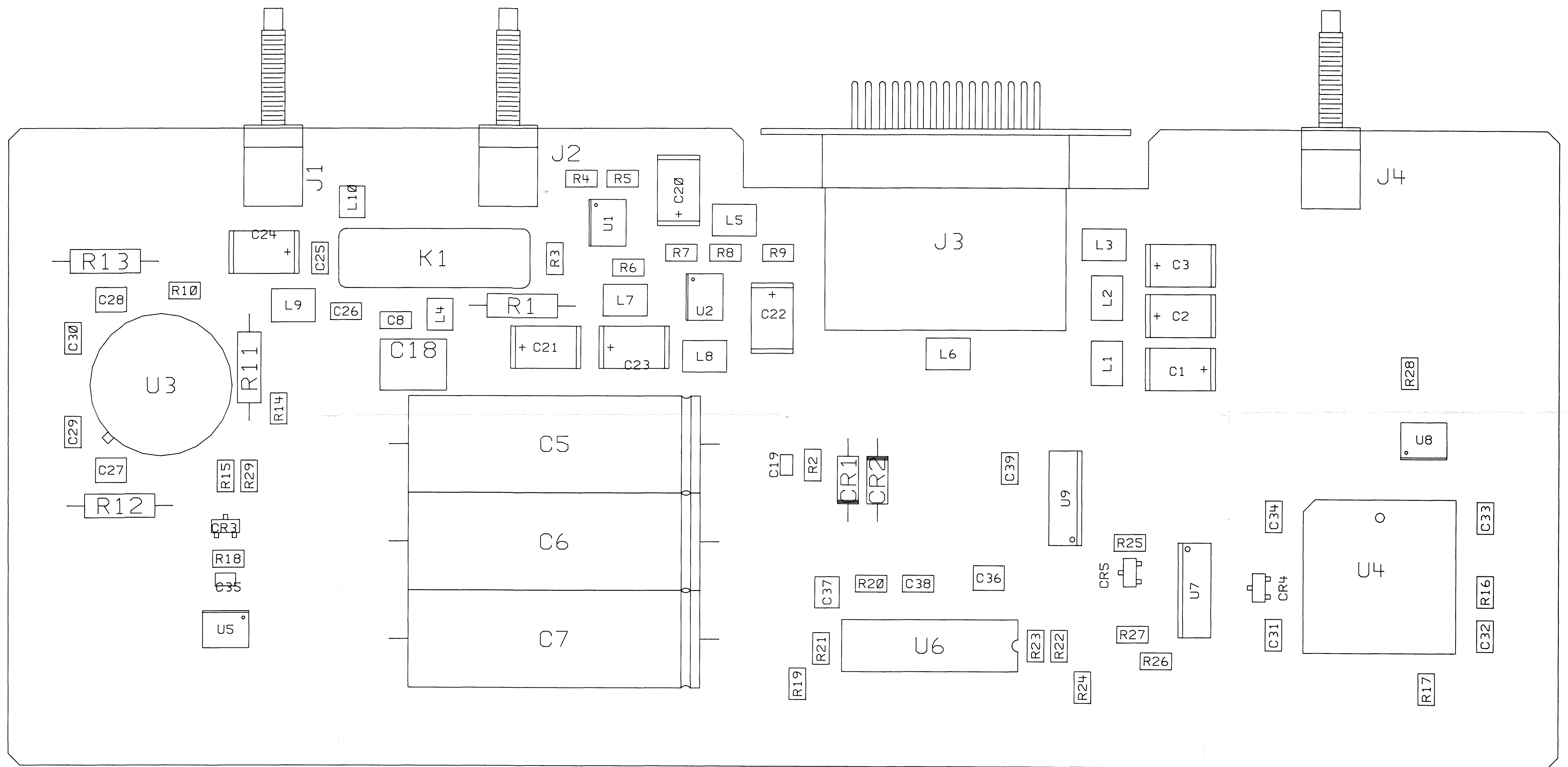
*Factory Selected Component (Refer to Section 5).

Δ Errata part change.

A-071492-10		D-70427-60101-1	
SYM	REVISIONS	APPROVED	DATE
A	AS ISSUED	T.FAULKNER/AB	7/14/92



TOM FAULKNER DRAWN BY	06JAN92 DATE	SCHEMATIC, PWA AM DETECTOR FILTER	s1bee101 FILENAME	HEWLETT PACKARD
TOM FAULKNER ENGINEER/CHECKER	06JAN92 DATE		SCALE NONE	
TAMMY RISA RELEASE TO PROD.	7/14/92 DATE		SHEET 1 OF 1	
SUPERSEDES DWG.		TITLE	70427-60101 PART NUMBER	D-70427-60101-1



70427-60101

Component-Level Information Packet for 70425-60107

A5A1 PWA Power Amp



**HP Part No. 70425-61803
Printed in USA September 1995**

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Table 1-1. Replaceable Parts

Reference Designation	HP Part Number	C D	Qty.	Description	Mfr. Code	Mfr. Part Number
A5A1						
A5A1	70425-60107	0	1	BD AY-PWR AMP	28480	70425-60107
C1	0160-5967	8	1	CAP-FXD 100pF + -5% 50 V CER C0G	09939	GRM40-001C0G101J050C
C2	0160-6100	3	1	CAP-FXD 1000pF + -5% 50 V CER C0G	09939	GRM42-6C0G102J050C
C3	0160-6100	3	1	CAP-FXD 1000pF + -5% 50 V CER C0G	09939	GRM42-6C0G102J050C
C4	0160-6100	3	1	CAP-FXD 1000pF + -5% 50 V CER C0G	09939	GRM42-6C0G102J050C
C5	0160-6100	3	1	CAP-FXD 1000pF + -5% 50 V CER C0G	09939	GRM42-6C0G102J050C
C6	0160-6100	3	1	CAP-FXD 1000pF + -5% 50 V CER C0G	09939	GRM42-6C0G102J050C
C7	0160-6100	3	1	CAP-FXD 1000pF + -5% 50 V CER C0G	09939	GRM42-6C0G102J050C
C8	0160-6100	3	1	CAP-FXD 1000pF + -5% 50 V CER C0G	09939	GRM42-6C0G102J050C
C9	0180-4116	9	1	CAP-FXD 22uF + -20% 20 V TA	00039	NRD226M20R12
C10	0180-4116	9	1	CAP-FXD 22uF + -20% 20 V TA	00039	NRD226M20R12
C11	0180-4116	9	1	CAP-FXD 22uF + -20% 20 V TA	00039	NRD226M20R12
C12	0180-4228	4	1	CAP-FXD 47uF + -20% 10 V TA	28480	0180-4228
C13	0180-4228	4	1	CAP-FXD 47uF + -20% 10 V TA	28480	0180-4228
C14	0180-4228	4	1	CAP-FXD 47uF + -20% 10 V TA	28480	0180-4228
C15	0180-4228	4	1	CAP-FXD 47uF + -20% 10 V TA	28480	0180-4228
C16	0180-4228	4	1	CAP-FXD 47uF + -20% 10 V TA	28480	0180-4228
C17	0180-4228	4	1	CAP-FXD 47uF + -20% 10 V TA	28480	0180-4228
J1	1251-8600	6	1	CONN-POST TYPE .100-PIN-SPCG 16-CONT	28480	1251-8600
MP1	70425-20107	6	1		28480	70425-20107
MP2	7121-4611	2	1	LABEL-INFORMATION .15-IN-WD .6-IN-LG	09002	
MP3	0380-0322	5	1	SPACER-RVT-ON .062-IN-LG .152-IN-ID	02685	
MP4	0380-0322	5	1	SPACER-RVT-ON .062-IN-LG .152-IN-ID	02685	
MP5	0380-0322	5	1	SPACER-RVT-ON .062-IN-LG .152-IN-ID	02685	
MP6	0380-0322	5	1	SPACER-RVT-ON .062-IN-LG .152-IN-ID	02685	
MP7	1251-5595	2	1	POLARIZING KEY-POST CONN	04726	3518
MP8	1251-5595	2	1	POLARIZING KEY-POST CONN	04726	3518

†Refer to Section 7 for update information.

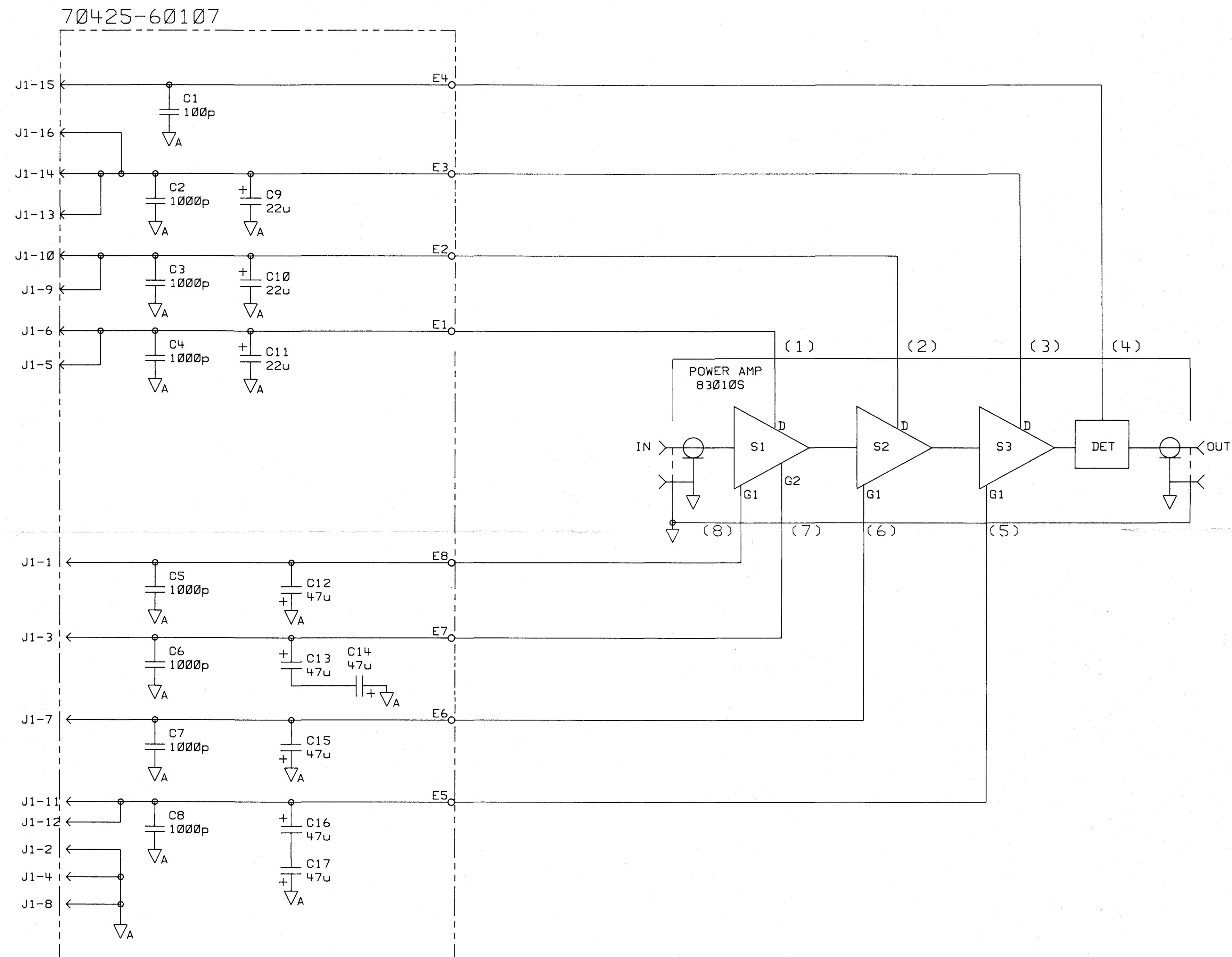
*Factory Selected Component (Refer to Section 5).

Δ Errata part change.

B-102292-10

B-70425-60107-1

SYM	REVISIONS	APPROVED	DATE
A	AS ISSUED	T. FAULKNER/AB	5-11-92
B	CHG'D PER PCO 107360	T. RISA/AB	10/23/92



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PAM AYERS DRAWN BY	15MAY90 DATE
TOM FAULKNER ENGINEER/CHECKER	15MAY90 DATE
JODI ZELLMER RELEASE TO PROD.	4-6-92 DATE
SUPERSEDES DWG.	

SCHEMATIC, PWA
PWA
POWER
AMP

TITLE

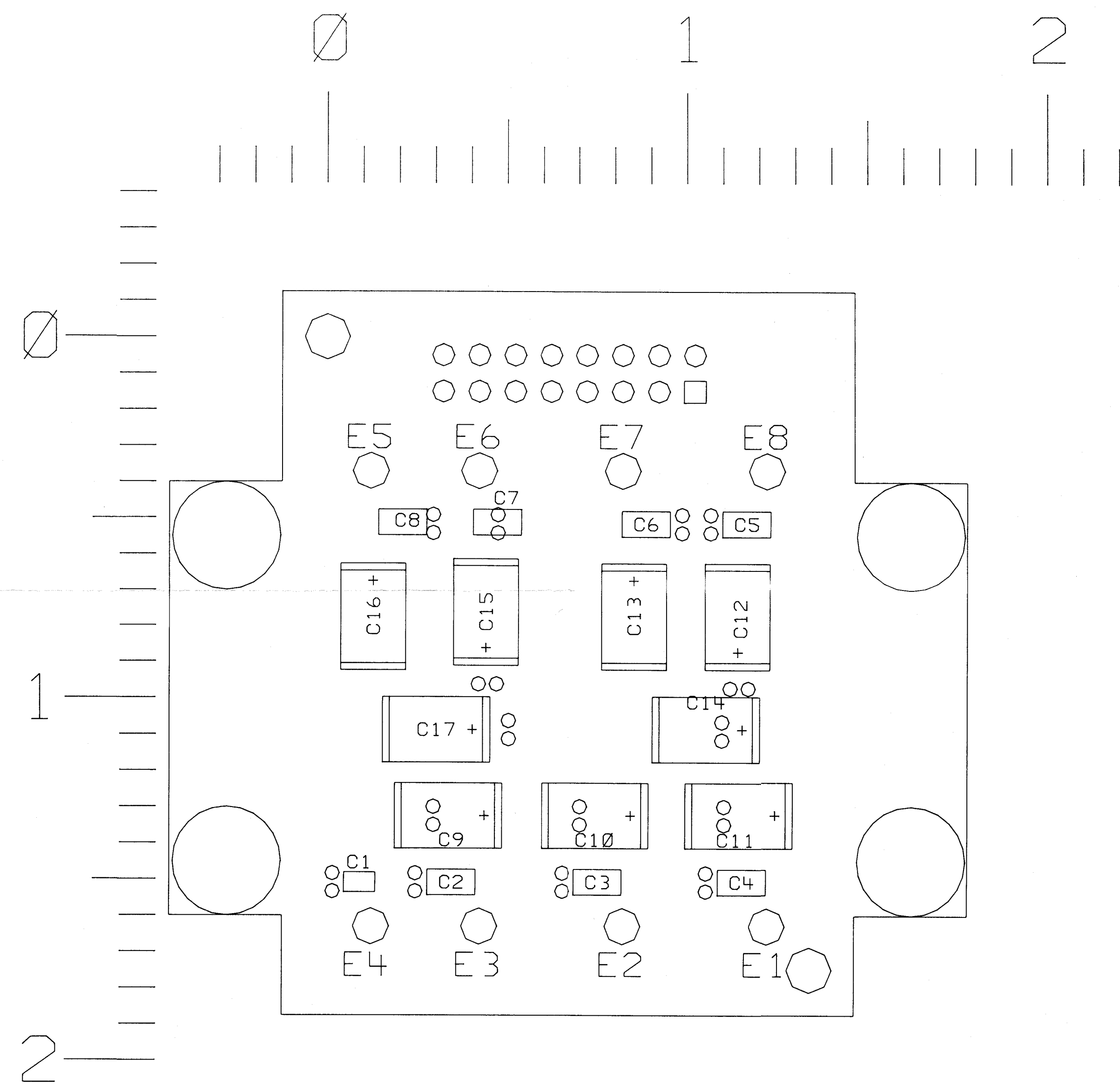
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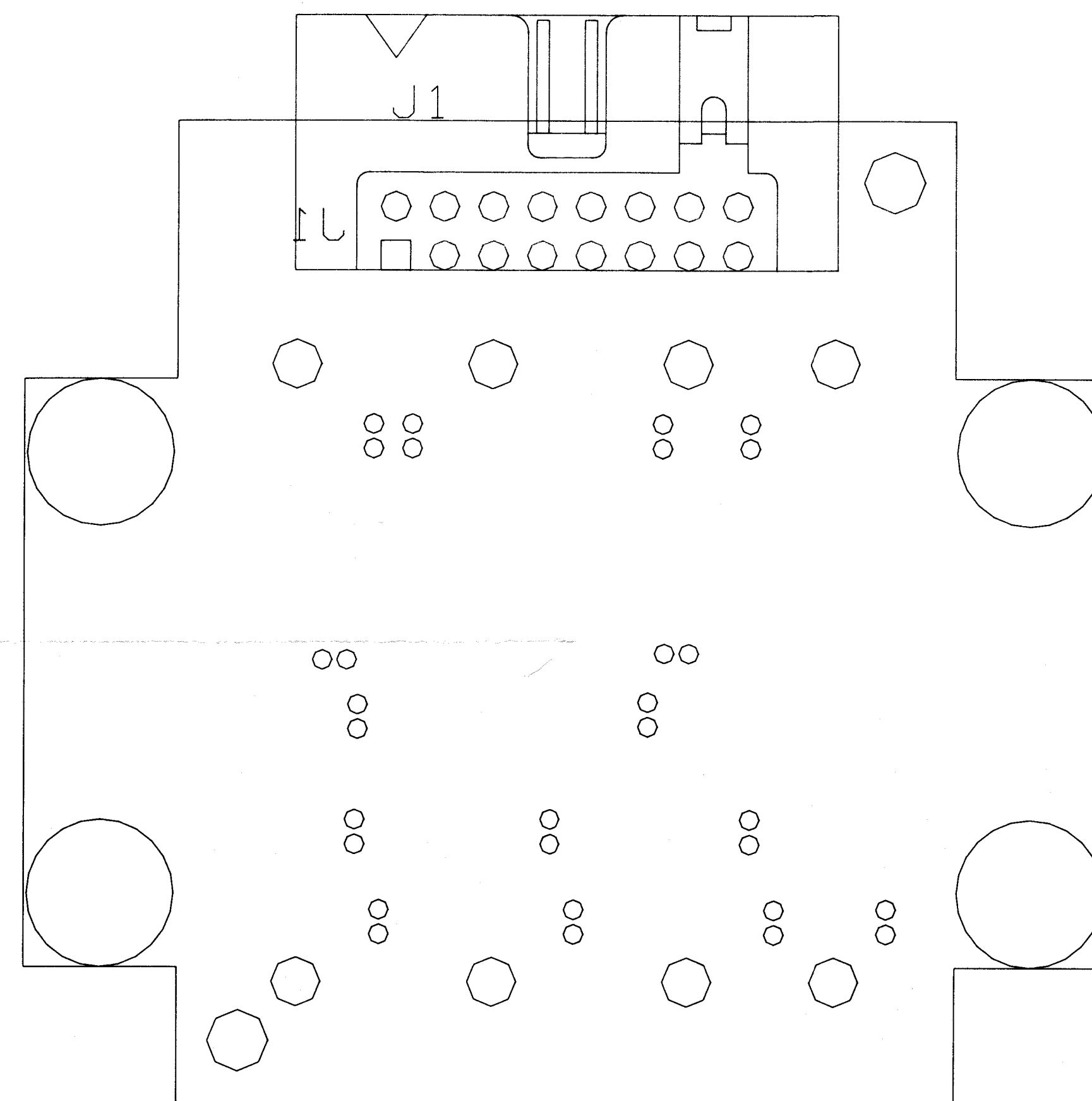
SHEET 1 OF 1

B-70425-60107-1

 HEWLETT
PACKARD70425-60107-1
PART NUMBER



70425-60107 FRONT



70425-60107
BACK

Component-Level Information Packet for 70425-60117

A5A2 Preamplifier



HP Part No. 70425-61802
Printed in USA September 1995

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Table 1-1. Replaceable Parts

Reference Designation	HP Part Number	C D	Qty.	Description	Mfr. Code	Mfr. Part Number
A5A2						
A5A2	70425-60117	2	1	BD AY-PRE AMP	28480	70425-60117
C1	0160-5967	8	1	CAP-FXD 100pF + -5% 50 V CER C0G	09939	GRM40-001C0G101J050C
C2	0160-6100	3	1	CAP-FXD 1000pF + -5% 50 V CER C0G	09939	GRM42-6C0G102J050C
C3	0160-6100	3	1	CAP-FXD 1000pF + -5% 50 V CER C0G	09939	GRM42-6C0G102J050C
C4	0160-6100	3	1	CAP-FXD 1000pF + -5% 50 V CER C0G	09939	GRM42-6C0G102J050C
C5	0160-6100	3	1	CAP-FXD 1000pF + -5% 50 V CER C0G	09939	GRM42-6C0G102J050C
C6	0160-6100	3	1	CAP-FXD 1000pF + -5% 50 V CER C0G	09939	GRM42-6C0G102J050C
C7	0160-6100	3	1	CAP-FXD 1000pF + -5% 50 V CER C0G	09939	GRM42-6C0G102J050C
C8	0160-6100	3	1	CAP-FXD 1000pF + -5% 50 V CER C0G	09939	GRM42-6C0G102J050C
C9	0180-4116	9	1	CAP-FXD 22uF + -20% 20 V TA	00039	NRD226M20R12
C10	0180-4116	9	1	CAP-FXD 22uF + -20% 20 V TA	00039	NRD226M20R12
C11	0180-4116	9	1	CAP-FXD 22uF + -20% 20 V TA	00039	NRD226M20R12
C12	0180-4228	4	1	CAP-FXD 47uF + -20% 10 V TA	28480	0180-4228
C13	0180-4228	4	1	CAP-FXD 47uF + -20% 10 V TA	28480	0180-4228
C14	0180-4228	4	1	CAP-FXD 47uF + -20% 10 V TA	28480	0180-4228
C15	0180-4228	4	1	CAP-FXD 47uF + -20% 10 V TA	28480	0180-4228
C16	0180-4228	4	1	CAP-FXD 47uF + -20% 10 V TA	28480	0180-4228
C17	0180-4228	4	1	CAP-FXD 47uF + -20% 10 V TA	28480	0180-4228
J1	1251-8332	1	1	CONN-POST TYPE .100-PIN-SPCG 14-CONT	28480	1251-8332
MP1	70425-20107	6	1		28480	70425-20107
MP2	7121-4611	2	1	LABEL-INFORMATION .15-IN-WD .6-IN-LG	09002	
MP3	0380-0322	5	1	SPACER-RVT-ON .062-IN-LG .152-IN-ID	02685	
MP4	0380-0322	5	1	SPACER-RVT-ON .062-IN-LG .152-IN-ID	02685	
MP5	0380-0322	5	1	SPACER-RVT-ON .062-IN-LG .152-IN-ID	02685	
MP6	0380-0322	5	1	SPACER-RVT-ON .062-IN-LG .152-IN-ID	02685	
MP7	1251-5595	2	1	POLARIZING KEY-POST CONN	04726	3518

†Refer to Section 7 for update information.

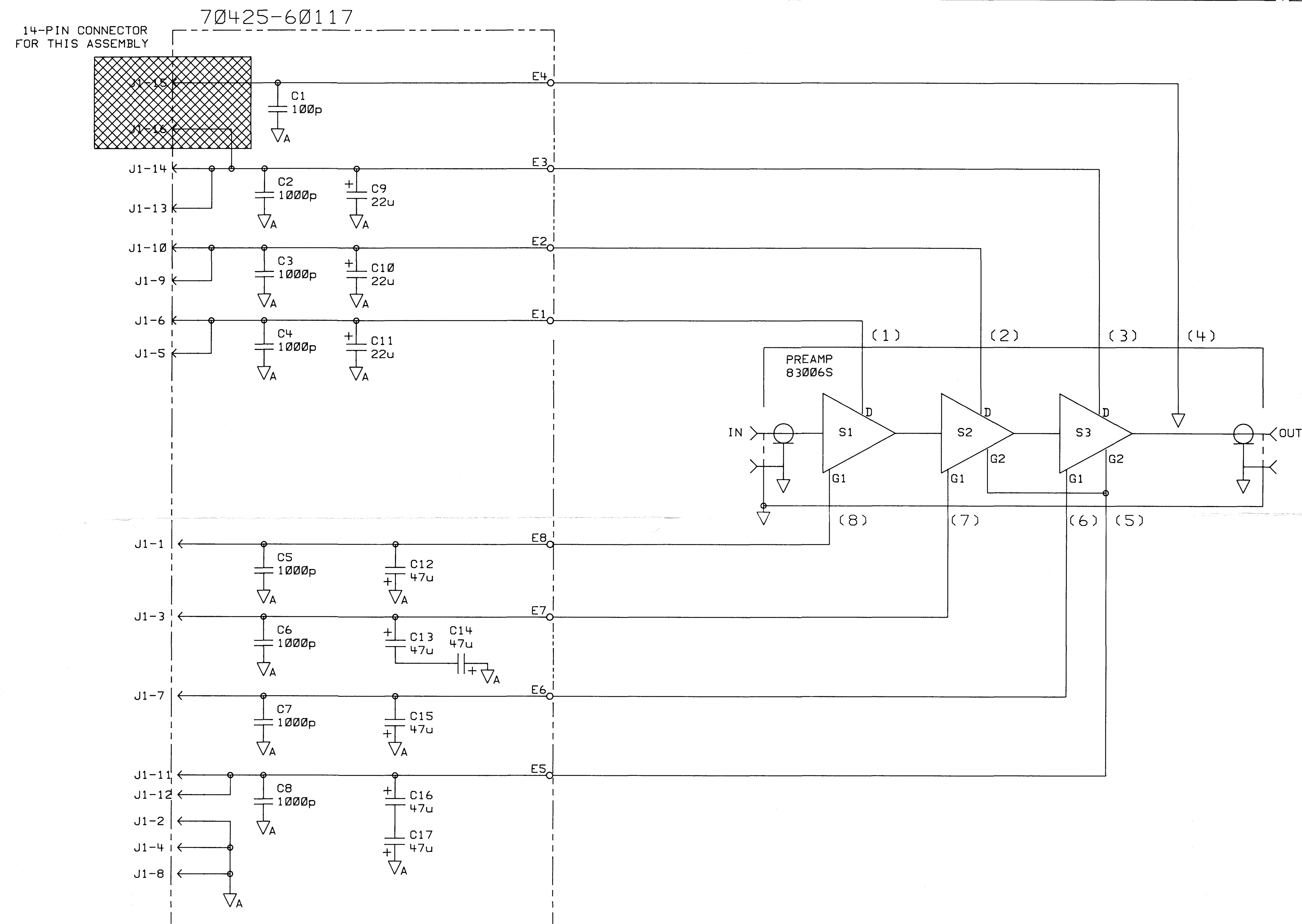
*Factory Selected Component (Refer to Section 5).

△ Errata part change.

B-102292-10

B-70425-60117-1

SYM	REVISIONS	APPROVED	DATE
		T. FAULKNER/AB	5-11-92
A	AS ISSUED WITH CHG'S LCN 029	T. RISA/AB	10/23/92
B	CHG'D PER PCO 107360		



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PAM AYERS DRAWN BY	15MAY90 DATE
TOM FAULKNER ENGINEER/CHECKER	15MAY90 DATE
JODI ZELLMER RELEASE TO PROD.	6-4-92 DATE
SUPERSEDES DWG.	

SCHEMATIC, PWA
PWA
POWER
AMP

TITLE

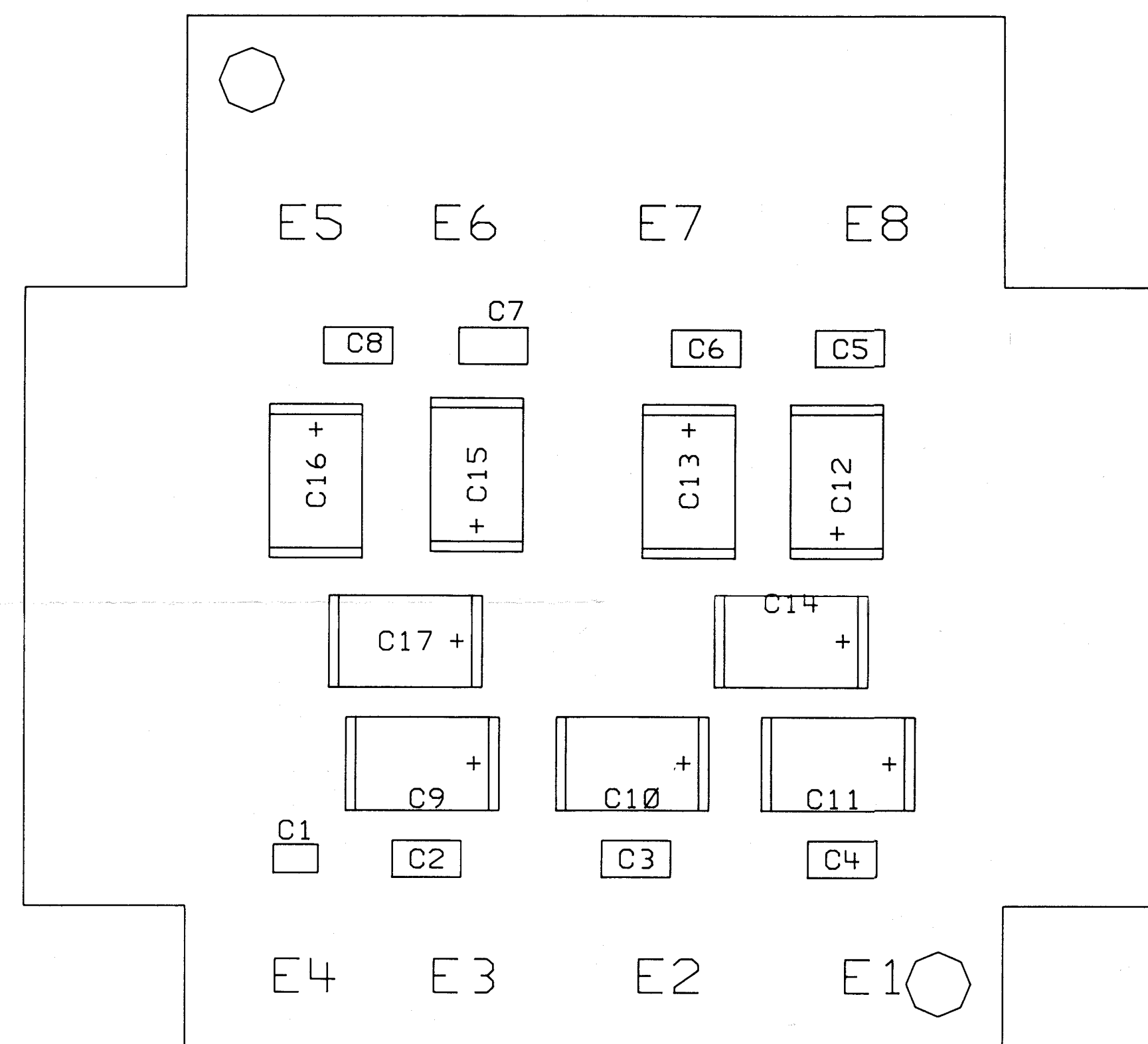
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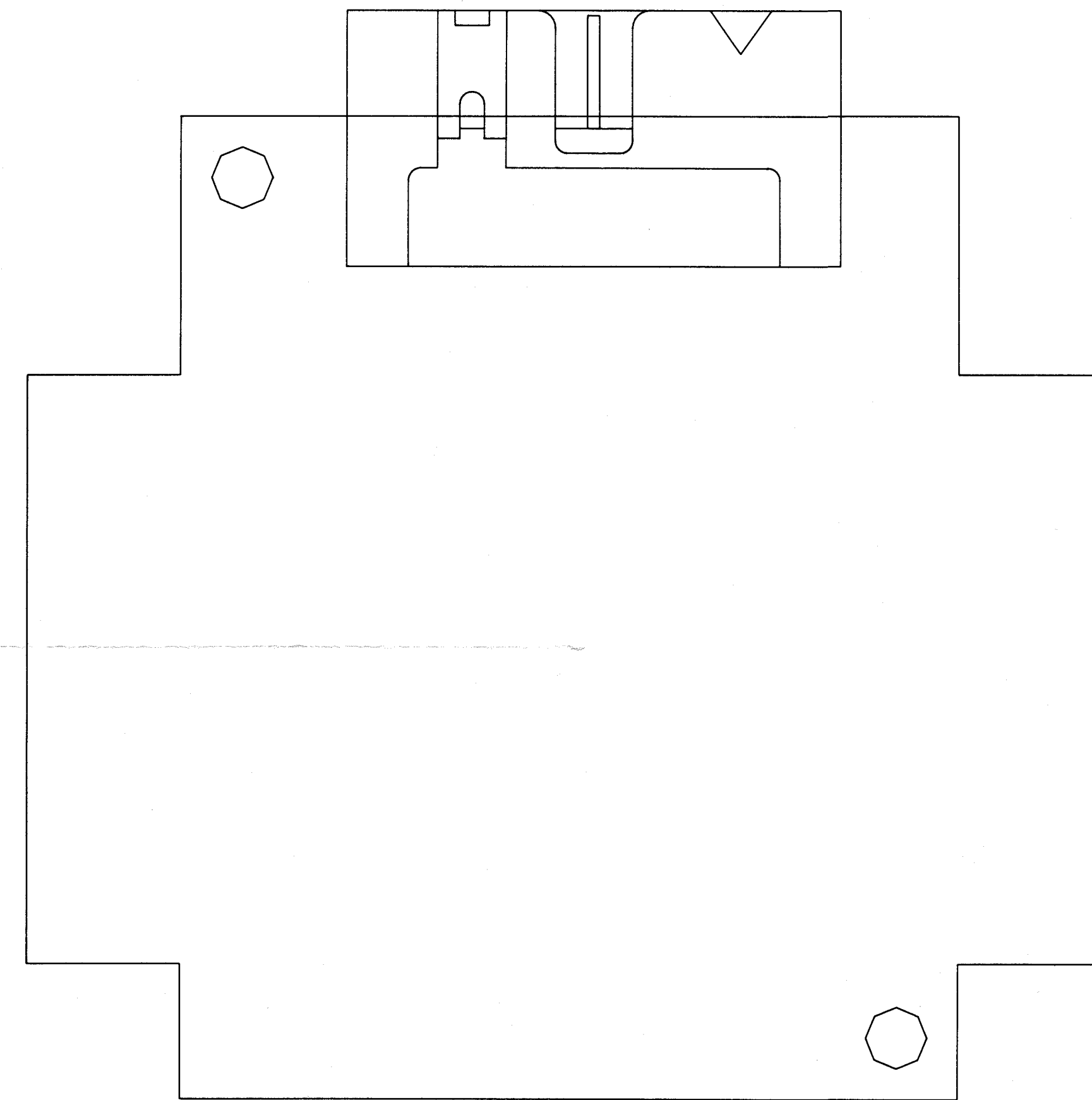
SHEET 1 OF 1

B-70425-60117-1

70425-60107-1
PART NUMBER



70425-60117 front



70425-60117 BACK

Component-Level Information Packet for 70425-60111

A6A1 I/O and Power Supply Board



**HP Part No. 70425-61807
Printed in USA September 1995**

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Changes to 70425-60111 — September 1995

Page 1-5

Change L5 to 9140-1666 100 μ H

Change L5 Mfr. Part Number to 5181-6350

Table 1-1. Replaceable Parts

Reference Designation	HP Part Number	C D	Qty.	Description	Mfr. Code	Mfr. Part Number
A6A1						
A6A1	70425-60111	6	1	BD AY-PWR SPLTIO	28480	70425-60111
C1	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C2	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C3	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C4	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C5	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C6	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C7	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C8	0160-5951	0	1	CAP-FXD 390pF +-5% 50 V CER C0G	09939	GRM40C0G391J050C
C9	0160-5951	0	1	CAP-FXD 390pF +-5% 50 V CER C0G	09939	GRM40C0G391J050C
C10	0160-5951	0	1	CAP-FXD 390pF +-5% 50 V CER C0G	09939	GRM40C0G391J050C
C11	0160-5951	0	1	CAP-FXD 390pF +-5% 50 V CER C0G	09939	GRM40C0G391J050C
C12	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C13	0160-5951	0	1	CAP-FXD 390pF +-5% 50 V CER C0G	09939	GRM40C0G391J050C
C14	0160-5951	0	1	CAP-FXD 390pF +-5% 50 V CER C0G	09939	GRM40C0G391J050C
C15	0160-5951	0	1	CAP-FXD 390pF +-5% 50 V CER C0G	09939	GRM40C0G391J050C
C16	0160-5951	0	1	CAP-FXD 390pF +-5% 50 V CER C0G	09939	GRM40C0G391J050C
C17	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C18	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C19	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C20	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C21	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C22	0160-3755	0	1	CAP-FXD 33uF +-20% 10 V TA	00039	NRD336M10R12
C23	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C24	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C25	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C26	0180-4287	5	1	CAP-FXD 10uF +-20% 35 V TA	28480	0180-4287
C27	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C28	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C29	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C30	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C31	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C32	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C33	0160-6096	6	1	CAP-FXD 470pF +-5% 50 V CER C0G	09939	GRM42-602C0G471J050C
C34	0180-3755	0	1	CAP-FXD 33uF +-20% 10 V TA	00039	NRD336M10R12
C35	0180-3755	0	1	CAP-FXD 33uF +-20% 10 V TA	00039	NRD336M10R12
C36	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C37	0180-3755	0	1	CAP-FXD 33uF +-20% 10 V TA	00039	NRD336M10R12
C38				NOT ASSIGNED		
C39	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C40	0180-4121	6	1	CAP-FXD 220uF +-20% 50 V AL-ELCTLT	28480	0180-4121
C41	0180-4287	5	1	CAP-FXD 10uF +-20% 35 V TA	28480	0180-4287
C42	0180-4121	6	1	CAP-FXD 220uF +-20% 50 V AL-ELCTLT	28480	0180-4121
C43	0160-5951	0	1	CAP-FXD 390pF +-5% 50 V CER C0G	09939	GRM40C0G391J050C
C44	0160-5951	0	1	CAP-FXD 390pF +-5% 50 V CER C0G	09939	GRM40C0G391J050C
C45	0160-5951	0	1	CAP-FXD 390pF +-5% 50 V CER C0G	09939	GRM40C0G391J050C
C46	0180-4287	5	1	CAP-FXD 10uF +-20% 35 V TA	28480	0180-4287
C47	0160-5951	0	1	CAP-FXD 390pF +-5% 50 V CER C0G	09939	GRM40C0G391J050C
C48	0160-5951	0	1	CAP-FXD 390pF +-5% 50 V CER C0G	09939	GRM40C0G391J050C
C49 - C51				NOT ASSIGNED		
C52	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C53				NOT ASSIGNED		
C54	0160-5951	0	1	CAP-FXD 390pF +-5% 50 V CER C0G	09939	GRM40C0G391J050C
C55	0160-5951	0	1	CAP-FXD 390pF +-5% 50 V CER C0G	09939	GRM40C0G391J050C
C56	0160-5951	0	1	CAP-FXD 390pF +-5% 50 V CER C0G	09939	GRM40C0G391J050C
C57	0160-5951	0	1	CAP-FXD 390pF +-5% 50 V CER C0G	09939	GRM40C0G391J050C

†Refer to Section 7 for update information.

*Factory Selected Component (Refer to Section 5).

Δ Errata part change

Table 1-1. Replaceable Parts

Reference Designation	HP Part Number	C D	Qty.	Description	Mfr. Code	Mfr. Part Number
C58	0160-5951	0	1	CAP-FXD 390pF +5% 50 V CER C0G	09939	GRM40C0G391J050C
C59 - C63				NOT ASSIGNED		
C64	0160-5951	0	1	CAP-FXD 390pF +5% 50 V CER C0G	09939	GRM40C0G391J050C
C65	0160-5951	0	1	CAP-FXD 390pF +5% 50 V CER C0G	09939	GRM40C0G391J050C
C66	0160-5951	0	1	CAP-FXD 390pF +5% 50 V CER C0G	09939	GRM40C0G391J050C
C67 - C79				NOT ASSIGNED		
C80	0180-4121	6	1	CAP-FXD 220uF +20% 50 V AL-ELCTLT	28480	0180-4121
C81	0180-4121	6	1	CAP-FXD 220uF +20% 50 V AL-ELCTLT	28480	0180-4121
C82 - C100				NOT ASSIGNED		
C101	0160-6734	9	1	CAP-FXD 0.047uF +10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C102	0160-5469	5	1	CAP-FXD 1uF +10% 50 V POLYE-MET	06119	MKT 1826-1UF 10% 63VDC
C103	0160-6734	9	1	CAP-FXD 0.047uF +10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C104	0160-6734	9	1	CAP-FXD 0.047uF +10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C105 - C106				NOT ASSIGNED		
C107	0160-6734	9	1	CAP-FXD 0.047uF +10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C108	0160-6734	9	1	CAP-FXD 0.047uF +10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C109 - C110				NOT ASSIGNED		
C111	0160-6734	9	1	CAP-FXD 0.047uF +10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C112	0160-6734	9	1	CAP-FXD 0.047uF +10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C113 - C114				NOT ASSIGNED		
C115	0180-4287	5	1	CAP-FXD 10uF +20% 35 V TA	28480	0180-4287
C116	0160-6734	9	1	CAP-FXD 0.047uF +10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C117	0160-6734	9	1	CAP-FXD 0.047uF +10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C118				NOT ASSIGNED		
C119	0180-4287	5	1	CAP-FXD 10uF +20% 35 V TA	28480	0180-4287
C120	0180-4274	0	1	CAP-FXD 4.7uF +20% 50 V TA	28480	0180-4274
C121	0180-4274	0	1	CAP-FXD 4.7uF +20% 50 V TA	28480	0180-4274
C122	0180-4405	9	1	CAP-FXD 470uF +20% 50 V AL-ELCTLT	28480	0180-4405
C123	0180-4405	9	1	CAP-FXD 470uF +20% 50 V AL-ELCTLT	28480	0180-4405
C124	0180-4405	9	1	CAP-FXD 470uF +20% 50 V AL-ELCTLT	28480	0180-4405
C125	0180-4405	9	1	CAP-FXD 470uF +20% 50 V AL-ELCTLT	28480	0180-4405
C126	0180-4405	9	1	CAP-FXD 470uF +20% 50 V AL-ELCTLT	28480	0180-4405
C127	0180-4405	9	1	CAP-FXD 470uF +20% 50 V AL-ELCTLT	28480	0180-4405
C128	0180-4405	9	1	CAP-FXD 470uF +20% 50 V AL-ELCTLT	28480	0180-4405
C129	0180-4405	9	1	CAP-FXD 470uF +20% 50 V AL-ELCTLT	28480	0180-4405
C130				NOT ASSIGNED		
C131	0160-6734	9	1	CAP-FXD 0.047uF +10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C132				NOT ASSIGNED		
C133	0160-4040	6	1	CAP-FXD 1000pF +5% 100 V CER C0G	09939	RPE121-105C0G102J100V
C134	0160-4040	6	1	CAP-FXD 1000pF +5% 100 V CER C0G	09939	RPE121-105C0G102J100V
C135	0160-4040	6	1	CAP-FXD 1000pF +5% 100 V CER C0G	09939	RPE121-105C0G102J100V
C136	0160-4040	6	1	CAP-FXD 1000pF +5% 100 V CER C0G	09939	RPE121-105C0G102J100V
C137	0160-0572	1	1	CAP-FXD 2200pF +20% 100 V CER X7R	09939	RPE121-105X7R222M100V
C138	0160-0572	1	1	CAP-FXD 2200pF +20% 100 V CER X7R	09939	RPE121-105X7R222M100V
C139	0160-0572	1	1	CAP-FXD 2200pF +20% 100 V CER X7R	09939	RPE121-105X7R222M100V
C140	0160-0572	1	1	CAP-FXD 2200pF +20% 100 V CER X7R	09939	RPE121-105X7R222M100V
C141	0160-0572	1	1	CAP-FXD 2200pF +20% 100 V CER X7R	09939	RPE121-105X7R222M100V
C142				NOT ASSIGNED		
C143	0180-4287	5	1	CAP-FXD 10uF +20% 35 V TA	28480	0180-4287
C144 - C145				NOT ASSIGNED		
C146	0160-6734	9	1	CAP-FXD 0.047uF +10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C147	0160-6734	9	1	CAP-FXD 0.047uF +10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C148	0180-4274	0	1	CAP-FXD 4.7uF +20% 50 V TA	28480	0180-4274
C149	0160-6735	0	1	CAP-FXD 4700pF +10% 50 V CER X7R	09939	GRM42-602X7R472K050C
C150	0160-6735	0	1	CAP-FXD 4700pF +10% 50 V CER X7R	09939	GRM42-602X7R472K050C
C151 - C152				NOT ASSIGNED		
C153	0160-6734	9	1	CAP-FXD 0.047uF +10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C154	0160-6734	9	1	CAP-FXD 0.047uF +10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C155	0180-3751	6	1	CAP-FXD 1uF +20% 35 V TA	00039	NRS105M35R8
C156	0180-4287	5	1	CAP-FXD 10uF +20% 35 V TA	28480	0180-4287

†Refer to Section 7 for update information.

*Factory Selected Component (Refer to Section 5).

Δ Errata part change

Table 1-1. Replaceable Parts

Reference Designation	HP Part Number	C D	Qty.	Description	Mfr. Code	Mfr. Part Number
C157	0180-4287	5	1	CAP-FXD 10uF +20% 35 V TA	28480	0180-4287
C158	0160-6734	9	1	CAP-FXD 0.047uF +10% 50 V CER X7R	09939	GRM42-60X7R473K050C
C159	0180-4287	5	1	CAP-FXD 10uF +20% 35 V TA	28480	0180-4287
C160	0160-6735	0	1	CAP-FXD 4700pF +10% 50 V CER X7R	09939	GRM42-602X7R472K050C
C161	0160-6735	0	1	CAP-FXD 4700pF +10% 50 V CER X7R	09939	GRM42-602X7R472K050C
C162	0180-4274	0	1	CAP-FXD 4.7uF +20% 50 V TA	28480	0180-4274
C163	0160-6735	0	1	CAP-FXD 4700pF +10% 50 V CER X7R	09939	GRM42-602X7R472K050C
C164	0160-6735	0	1	CAP-FXD 4700pF +10% 50 V CER X7R	09939	GRM42-602X7R472K050C
C165	0160-7333	6	1	CAP-FXD 0.068uF +10% 50 V CER X7R	28480	0160-7333
C166	0160-7333	6	1	CAP-FXD 0.068uF +10% 50 V CER X7R	28480	0160-7333
C167	0160-6100	3	1	CAP-FXD 1000pF +5% 50 V CER C0G	09939	GRM42-6C0G102J050C
C168	0160-6100	3	1	CAP-FXD 1000pF +5% 50 V CER C0G	09939	GRM42-6C0G102J050C
C169	0160-6100	3	1	CAP-FXD 1000pF +5% 50 V CER C0G	09939	GRM42-6C0G102J050C
C170	0160-6735	0	1	CAP-FXD 4700pF +10% 50 V CER X7R	09939	GRM42-602X7R472K050C
C171	0160-6735	0	1	CAP-FXD 4700pF +10% 50 V CER X7R	09939	GRM42-602X7R472K050C
C172	0160-6735	0	1	CAP-FXD 4700pF +10% 50 V CER X7R	09939	GRM42-602X7R472K050C
C173	0160-6735	0	1	CAP-FXD 4700pF +10% 50 V CER X7R	09939	GRM42-602X7R472K050C
C174	0160-7333	6	1	CAP-FXD 0.068uF +10% 50 V CER X7R	28480	0160-7333
C175	0160-6735	0	1	CAP-FXD 4700pF +10% 50 V CER X7R	09939	GRM42-602X7R472K050C
C176	0160-6735	0	1	CAP-FXD 4700pF +10% 50 V CER X7R	09939	GRM42-602X7R472K050C
C177	0180-4287	5	1	CAP-FXD 10uF +20% 35 V TA	28480	0180-4287
C178	0180-4287	5	1	CAP-FXD 10uF +20% 35 V TA	28480	0180-4287
C179	0180-3755	0	1	CAP-FXD 33uF +20% 10 V TA	00039	NRD336M10R12
C180	0160-6100	3	1	CAP-FXD 1000pF +5% 50 V CER C0G	09939	GRM42-6C0G102J050C
C181	0160-6100	3	1	CAP-FXD 1000pF +5% 50 V CER C0G	09939	GRM42-6C0G102J050C
C182	0160-7333	6	1	CAP-FXD 0.068uF +10% 50 V CER X7R	28480	0160-7333
C183	0160-6734	9	1	CAP-FXD 0.047uF +10% 50 V CER X7R	09939	GRM42-60X7R473K050C
C184	0180-4287	5	1	CAP-FXD 10uF +20% 35 V TA	28480	0180-4287
C185	0160-6100	3	1	CAP-FXD 1000pF +5% 50 V CER C0G	09939	GRM42-6C0G102J050C
C186	0160-7333	6	1	CAP-FXD 0.068uF +10% 50 V CER X7R	28480	0160-7333
C187	0160-7333	6	1	CAP-FXD 0.068uF +10% 50 V CER X7R	28480	0160-7333
C188	0160-6098	8	1	CAP-FXD 680pF +5% 50 V CER C0G	09939	GRM42-602C0G681J050C
C189	0160-6098	8	1	CAP-FXD 680pF +5% 50 V CER C0G	09939	GRM42-602C0G681J050C
C190	0160-6098	8	1	CAP-FXD 680pF +5% 50 V CER C0G	09939	GRM42-602C0G681J050C
C191	0160-6098	8	1	CAP-FXD 680pF +5% 50 V CER C0G	09939	GRM42-602C0G681J050C
C192	0160-6098	8	1	CAP-FXD 680pF +5% 50 V CER C0G	09939	GRM42-602C0G681J050C
C193	0160-6098	8	1	CAP-FXD 680pF +5% 50 V CER C0G	09939	GRM42-602C0G681J050C
CR1	1901-1227	8	1	DIODE-SWITCHING 75V 200MA 6NS TO-236	28480	1901-1227
CR2	1901-1227	8	1	DIODE-SWITCHING 75V 200MA 6NS TO-236	28480	1901-1227
CR3	1901-1227	8	1	DIODE-SWITCHING 75V 200MA 6NS TO-236	28480	1901-1227
CR4	1901-1227	8	1	DIODE-SWITCHING 75V 200MA 6NS TO-236	28480	1901-1227
CR5 - CR11				NOT ASSIGNED		
CR12	1901-1128	8	1	DIODE-SCHOTTKY 40V 1A	28480	1901-1128
CR13 - CR100				NOT ASSIGNED		
CR101	1901-0880	7	1	DIODE-GEN PRP 200MA DO-35	28480	1901-0880
CR102	1901-0880	7	1	DIODE-GEN PRP 200MA DO-35	28480	1901-0880
CR103	1902-0627	2	1	DIODE-CUR RGLTR 1N5312 100V DO-7	28480	1902-0627
CR104	1901-0880	7	1	DIODE-GEN PRP 200MA DO-35	28480	1901-0880
CR105	1901-0880	7	1	DIODE-GEN PRP 200MA DO-35	28480	1901-0880
CR106	1901-0880	7	1	DIODE-GEN PRP 200MA DO-35	28480	1901-0880
CR107				NOT ASSIGNED		
CR108	1901-0880	7	1	DIODE-GEN PRP 200MA DO-35	28480	1901-0880

†Refer to Section 7 for update information.

*Factory Selected Component (Refer to Section 5)

△ Errata part change

Table 1-1. Replaceable Parts

Reference Designation	HP Part Number	C D	Qty.	Description	Mfr. Code	Mfr. Part Number
CR109	1901-1216	5	1	DIODE-PWR RECT 150V 4A 35NS	28480	1901-1216
CR110	1901-1216	5	1	DIODE-PWR RECT 150V 4A 35NS	28480	1901-1216
CR111	1901-1216	5	1	DIODE-PWR RECT 150V 4A 35NS	28480	1901-1216
CR112	1901-1216	5	1	DIODE-PWR RECT 150V 4A 35NS	28480	1901-1216
CR113	1901-1216	5	1	DIODE-PWR RECT 150V 4A 35NS	28480	1901-1216
CR114	1901-1216	5	1	DIODE-PWR RECT 150V 4A 35NS	28480	1901-1216
CR115	1901-1216	5	1	DIODE-PWR RECT 150V 4A 35NS	28480	1901-1216
CR116	1901-1216	5	1	DIODE-PWR RECT 150V 4A 35NS	28480	1901-1216
CR117	1901-1216	5	1	DIODE-PWR RECT 150V 4A 35NS	28480	1901-1216
CR118	1901-1216	5	1	DIODE-PWR RECT 150V 4A 35NS	28480	1901-1216
CR119	1901-1216	5	1	DIODE-PWR RECT 150V 4A 35NS	28480	1901-1216
CR120	1901-1216	5	1	DIODE-PWR RECT 150V 4A 35NS	28480	1901-1216
CR121	1901-0877	2	1	DIODE-PWR RECT 40V 3A	28480	1901-0877
CR122	1901-0877	2	1	DIODE-PWR RECT 40V 3A	28480	1901-0877
CR123	1901-0877	2	1	DIODE-PWR RECT 40V 3A	28480	1901-0877
CR124	1901-0877	2	1	DIODE-PWR RECT 40V 3A	28480	1901-0877
CR125	1901-1227	8	1	DIODE-SWITCHING 75V 200MA 6NS TO-236	28480	1901-1227
CR126	1902-0627	2	1	DIODE-CUR RGLTR 1NS312 100V DO-7	28480	1902-0627
CR127	1901-1227	8	1	DIODE-SWITCHING 75V 200MA 6NS TO-236	28480	1901-1227
CR128	1901-0731	7	1	DIODE-PWR RECT 400V 1A	06650	
CR129	1901-0731	7	1	DIODE-PWR RECT 400V 1A	06650	
CR130				NOT ASSIGNED		
CR131	1906-0320	0	1	DIODE-DUAL 40V 40MA TO-236AA	28480	1906-0320
CR132	1901-1227	8	1	DIODE-SWITCHING 75V 200MA 6NS TO-236	28480	1901-1227
CR133	1901-1227	8	1	DIODE-SWITCHING 75V 200MA 6NS TO-236	28480	1901-1227
CR134	1901-1227	8	1	DIODE-SWITCHING 75V 200MA 6NS TO-236	28480	1901-1227
CR135	1901-1227	8	1	DIODE-SWITCHING 75V 200MA 6NS TO-236	28480	1901-1227
CR136	1901-0880	7	1	DIODE-GEN PRP 200MA DO-35	28480	1901-0880
CR137	1901-0880	7	1	DIODE-GEN PRP 200MA DO-35	28480	1901-0880
CR138	1901-0880	7	1	DIODE-GEN PRP 200MA DO-35	28480	1901-0880
CR139	1901-0880	7	1	DIODE-GEN PRP 200MA DO-35	28480	1901-0880
CR140	1901-0880	7	1	DIODE-GEN PRP 200MA DO-35	28480	1901-0880
CR141	1901-0880	7	1	DIODE-GEN PRP 200MA DO-35	28480	1901-0880
DS1	1990-0486	6	1	LED-LAMP LUM-INT = 2MCD IF = 25MA-MAX BVR = 5V	28480	1990-0486
DS2	1990-0486	6	1	LED-LAMP LUM-INT = 2MCD IF = 25MA-MAX BVR = 5V	28480	1990-0486
DS3	1990-0486	6	1	LED-LAMP LUM-INT = 2MCD IF = 25MA-MAX BVR = 5V	28480	1990-0486
DS4	1990-0486	6	1	LED-LAMP LUM-INT = 2MCD IF = 25MA-MAX BVR = 5V	28480	1990-0486
DS5	1990-0486	6	1	LED-LAMP LUM-INT = 2MCD IF = 25MA-MAX BVR = 5V	28480	1990-0486
DS6	1990-0486	6	1	LED-LAMP LUM-INT = 2MCD IF = 25MA-MAX BVR = 5V	28480	1990-0486
DS7	1990-0486	6	1	LED-LAMP LUM-INT = 2MCD IF = 25MA-MAX BVR = 5V	28480	1990-0486
DS8	1990-0486	6	1	LED-LAMP LUM-INT = 2MCD IF = 25MA-MAX BVR = 5V	28480	1990-0486
F101	2110-0698	9	1	FUSE-SUBMINIATURE 2.5A 125V NTD AX	04703	R25102.5T1
F102	2110-0698	9	1	FUSE-SUBMINIATURE 2.5A 125V NTD AX	04703	R25102.5T1
J1	1251-8600	6	1	CONN-POST TYPE .100-PIN-SPCG 16-CONT	28480	1251-8600
J2	1251-8600	6	1	CONN-POST TYPE .100-PIN-SPCG 16-CONT	28480	1251-8600
J3	1251-8600	6	1	CONN-POST TYPE .100-PIN-SPCG 16-CONT	28480	1251-8600
J4				NOT ASSIGNED		
J5	1251-8158	9	1	CONN-POST TYPE .100-PIN-SPCG 40-CONT	28480	1251-8158

†Refer to Section 7 for update information

*Factory Selected Component (Refer to Section 5)

△ Errata part change

Table 1-1. Replaceable Parts

Reference Designation	HP Part Number	C D	Qty.	Description	Mfr. Code	Mfr. Part Number
J6	1251-8600	6	1	CONN-POST TYPE .100-PIN-SPCG 16-CONT	28480	1251-8600
J7	1251-8600	6	1	CONN-POST TYPE .100-PIN-SPCG 16-CONT	28480	1251-8600
J8	1251-8600	6	1	CONN-POST TYPE .100-PIN-SPCG 16-CONT	28480	1251-8600
J9	1251-8600	6	1	CONN-POST TYPE .100-PIN-SPCG 16-CONT	28480	1251-8600
J10	1250-0543	8	1	CONNECTOR-RF SMB PLUG PC-W-STDFS 50-OHM	07247	59S213-40TDS
J11	1252-0718	3	1	CONN-POST TYPE .100-PIN-SPCG 5-CONT	01380	641215-5
J12	1252-0775	2	1	CONN-POST TYPE .100-PIN-SPCG 25-CONT	02946	68456-625
J13	1252-0775	2	1	CONN-POST TYPE .100-PIN-SPCG 25-CONT	02946	68456-625
L1	9140-1665	2	1	INDUCTOR 55uH + 5% -5%	12918	5181-0183
L2	9140-1665	2	1	INDUCTOR 55uH + 5% -5%	12918	5181-0183
L3	9140-1665	2	1	INDUCTOR 55uH + 5% -5%	12918	5181-0183
L4	9140-1665	2	1	INDUCTOR 55uH + 5% -5%	12918	5181-0183
L5	9140-1665	2	1	INDUCTOR 55uH + 5% -5%	12918	5181-0183
L6	9140-1665	2	1	INDUCTOR 55uH + 5% -5%	12918	5181-0183
L7	9140-1665	2	1	INDUCTOR 55uH + 5% -5%	12918	5181-0183
L8	9140-1665	2	1	INDUCTOR 55uH + 5% -5%	12918	5181-0183
L9	9140-1665	2	1	INDUCTOR 55uH + 5% -5%	12918	5181-0183
L10	9140-1666	3	1	INDUCTOR 100uH + 5% -5%	12918	5181-6350
L11	9140-1665	2	1	INDUCTOR 55uH + 5% -5%	12918	5181-0183
L12	9140-1665	2	1	INDUCTOR 55uH + 5% -5%	12918	5181-0183
MP1	70425-20111	2	1		28480	70425-20111
MP2	7121-4611	2	1	LABEL-INFORMATION .15-IN-WD .6-IN-LG	09002	
MP3	70425-00010	8	1		28480	70425-00010
MP4	70425-00010	8	1		28480	70425-00010
MP5	0340-1315	4	1	INSULATOR-XSTR 8-NITRIDE	02923	60-12-0394-1679
MP6	0340-1315	4	1	INSULATOR-XSTR 8-NITRIDE	02923	60-12-0394-1679
MP7	0340-1315	4	1	INSULATOR-XSTR 8-NITRIDE	02923	60-12-0394-1679
MP8	0340-1315	4	1	INSULATOR-XSTR 8-NITRIDE	02923	60-12-0394-1679
MP9	0340-1315	4	1	INSULATOR-XSTR 8-NITRIDE	02923	60-12-0394-1679
MP10	0340-1315	4	1	INSULATOR-XSTR 8-NITRIDE	02923	60-12-0394-1679
MP11	0340-1315	4	1	INSULATOR-XSTR 8-NITRIDE	02923	60-12-0394-1679
MP12	0340-1315	4	1	INSULATOR-XSTR 8-NITRIDE	02923	60-12-0394-1679
MP13	0515-0655	4	1	SCREW-MACH M3 X 0.5 8MM-LG PAN-HD	05610	
MP14	0515-0655	4	1	SCREW-MACH M3 X 0.5 8MM-LG PAN-HD	05610	
MP15	0515-0655	4	1	SCREW-MACH M3 X 0.5 8MM-LG PAN-HD	05610	
MP16	0515-0655	4	1	SCREW-MACH M3 X 0.5 8MM-LG PAN-HD	05610	
MP17	0515-0655	4	1	SCREW-MACH M3 X 0.5 8MM-LG PAN-HD	05610	
MP18	0515-0655	4	1	SCREW-MACH M3 X 0.5 8MM-LG PAN-HD	05610	
MP19	0515-0655	4	1	SCREW-MACH M3 X 0.5 8MM-LG PAN-HD	05610	
MP20	0515-0655	4	1	SCREW-MACH M3 X 0.5 8MM-LG PAN-HD	05610	
MP21	0535-0004	9	1	NUT-HEX DBL-CHAM M3 X 0.5 2.9MM-THK	06691	
MP22	0535-0004	9	1	NUT-HEX DBL-CHAM M3 X 0.5 2.9MM-THK	06691	
MP23	0535-0004	9	1	NUT-HEX DBL-CHAM M3 X 0.5 2.9MM-THK	06691	
MP24	0535-0004	9	1	NUT-HEX DBL-CHAM M3 X 0.5 2.9MM-THK	06691	
MP25	0535-0004	9	1	NUT-HEX DBL-CHAM M3 X 0.5 2.9MM-THK	06691	
MP26	0535-0004	9	1	NUT-HEX DBL-CHAM M3 X 0.5 2.9MM-THK	06691	
MP27	0535-0004	9	1	NUT-HEX DBL-CHAM M3 X 0.5 2.9MM-THK	06691	
MP28	0535-0004	9	1	NUT-HEX DBL-CHAM M3 X 0.5 2.9MM-THK	06691	
MP29	2190-0584	0	1	WASHER-LK HLCL 3.0 3.1-MM-ID 6.2-MM-OD	06691	
MP30	2190-0584	0	1	WASHER-LK HLCL 3.0 3.1-MM-ID 6.2-MM-OD	06691	

†Refer to Section 7 for update information.

*Factory Selected Component (Refer to Section 5)

Δ Errata part change.

Table 1-1. Replaceable Parts

Reference Designation	HP Part Number	C D	Qty.	Description	Mfr. Code	Mfr. Part Number
MP31	2190-0584	0	1	WASHER-LK HLCL 3.0 3.1-MM-ID 6.2-MM-OD	06691	
MP32	2190-0584	0	1	WASHER-LK HLCL 3.0 3.1-MM-ID 6.2-MM-OD	06691	
MP33	2190-0584	0	1	WASHER-LK HLCL 3.0 3.1-MM-ID 6.2-MM-OD	06691	
MP34	2190-0584	0	1	WASHER-LK HLCL 3.0 3.1-MM-ID 6.2-MM-OD	06691	
MP35	2190-0584	0	1	WASHER-LK HLCL 3.0 3.1-MM-ID 6.2-MM-OD	06691	
MP36	2190-0584	0	1	WASHER-LK HLCL 3.0 3.1-MM-ID 6.2-MM-OD	06691	
MP37	3050-0891	7	1	WASHER-FL MTLC 3.0 3.3-MM-ID 6.85-MM-OD	06691	
MP38	3050-0891	7	1	WASHER-FL MTLC 3.0 3.3-MM-ID 6.85-MM-OD	06691	
MP39	3050-0891	7	1	WASHER-FL MTLC 3.0 3.3-MM-ID 6.85-MM-OD	06691	
MP40	3050-0891	7	1	WASHER-FL MTLC 3.0 3.3-MM-ID 6.85-MM-OD	06691	
MP41	3050-0891	7	1	WASHER-FL MTLC 3.0 3.3-MM-ID 6.85-MM-OD	06691	
MP42	3050-0891	7	1	WASHER-FL MTLC 3.0 3.3-MM-ID 6.85-MM-OD	06691	
MP43	3050-0891	7	1	WASHER-FL MTLC 3.0 3.3-MM-ID 6.85-MM-OD	06691	
MP44	3050-0891	7	1	WASHER-FL MTLC 3.0 3.3-MM-ID 6.85-MM-OD	06691	
MP45	3050-0004	4	1	WASHER-SHLDR NO. 4 .12-IN-ID .312-IN-OD	04604	NO. 1460
MP46	3050-0004	4	1	WASHER-SHLDR NO. 4 .12-IN-ID .312-IN-OD	04604	NO. 1460
MP47	3050-0004	4	1	WASHER-SHLDR NO. 4 .12-IN-ID .312-IN-OD	04604	NO. 1460
MP48	3050-0004	4	1	WASHER-SHLDR NO. 4 .12-IN-ID .312-IN-OD	04604	NO. 1460
MP49	3050-0004	4	1	WASHER-SHLDR NO. 4 .12-IN-ID .312-IN-OD	04604	NO. 1460
MP50	3050-0004	4	1	WASHER-SHLDR NO. 4 .12-IN-ID .312-IN-OD	04604	NO. 1460
MP51	3050-0004	4	1	WASHER-SHLDR NO. 4 .12-IN-ID .312-IN-OD	04604	NO. 1460
MP52	3050-0004	4	1	WASHER-SHLDR NO. 4 .12-IN-ID .312-IN-OD	04604	NO. 1460
MP53	0515-0680	5	1	SCREW-MACH M3 X 0.5 6MM-LG PAN-HD	05610	
MP54	0515-0680	5	1	SCREW-MACH M3 X 0.5 6MM-LG PAN-HD	05610	
MP55	0515-0680	5	1	SCREW-MACH M3 X 0.5 6MM-LG PAN-HD	05610	
MP56	0515-0680	5	1	SCREW-MACH M3 X 0.5 6MM-LG PAN-HD	05610	
MP57	1251-5595	2	1	POLARIZING KEY-POST CONN	04726	3518
MP58	1251-5595	2	1	POLARIZING KEY-POST CONN	04726	3518
MP59	1251-5595	2	1	POLARIZING KEY-POST CONN	04726	3518
MP60	1251-5595	2	1	POLARIZING KEY-POST CONN	04726	3518
MP61	1251-5595	2	1	POLARIZING KEY-POST CONN	04726	3518
MP62	1251-5595	2	1	POLARIZING KEY-POST CONN	04726	3518
MP63	1251-5595	2	1	POLARIZING KEY-POST CONN	04726	3518
MP64	1251-5595	2	1	POLARIZING KEY-POST CONN	04726	3518
MP65	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP66	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP67	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP68	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP69	1251-5595	2	1	POLARIZING KEY-POST CONN	04726	3518
MP70	1251-5595	2	1	POLARIZING KEY-POST CONN	04726	3518
MP71	1251-5595	2	1	POLARIZING KEY-POST CONN	04726	3518
MP72	1251-5595	2	1	POLARIZING KEY-POST CONN	04726	3518
MP73	1251-5595	2	1	POLARIZING KEY-POST CONN	04726	3518
MP74	1251-5595	2	1	POLARIZING KEY-POST CONN	04726	3518
MP75	1251-5595	2	1	POLARIZING KEY-POST CONN	04726	3518
MP76	1251-5595	2	1	POLARIZING KEY-POST CONN	04726	3518
Q1				NOT ASSIGNED		
Q2	1854-0920	5	1	TRANSISTOR NPN TO-220AB PD = 2W FT = 30MHZ	28480	1854-0920
Q3 - Q101				NOT ASSIGNED		
Q102	1855-0694	2	1	TRANSISTOR MOSFET N-CHAN TO-220 SI	28480	1855-0694
Q103	1855-0694	2	1	TRANSISTOR MOSFET N-CHAN TO-220 SI	28480	1855-0694
Q104				NOT ASSIGNED		
Q105	1855-0694	2	1	TRANSISTOR MOSFET N-CHAN TO-220 SI	28480	1855-0694
Q106				NOT ASSIGNED		
Q107	1855-0812	6	1	TRANSISTOR MOSFET P-CHAN E-MODE TO-220	28480	1855-0812
Q108				NOT ASSIGNED		

†Refer to Section 7 for update information.

*Factory Selected Component (Refer to Section 5)

△ Errata part change

Table 1-1. Replaceable Parts

Reference Designation	HP Part Number	C D	Qty.	Description	Mfr. Code	Mfr. Part Number
Q109	1855-0812	6	1	TRANSISTOR MOSFET P-CHAN E-MODE TO-220	28480	1855-0812
Q110	1855-0812	6	1	TRANSISTOR MOSFET P-CHAN E-MODE TO-220	28480	1855-0812
Q111	1854-0920	5	1	TRANSISTOR NPN TO-220AB PD=2W FT=30MHZ	28480	1854-0920
R1	0699-1391	5	1	RESISTOR 10K +-1% .125W TKF TC=0+-100	06119	D25 10K OHM
R2 - R10				NOT ASSIGNED		
R11	0699-1391	5	1	RESISTOR 10K +-1% .125W TKF TC=0+-100	06119	D25 10K OHM
R12 - R42				NOT ASSIGNED		
R43	0699-1408	5	1	RESISTOR 51.1K +-1% .125W TKF TC=0+-100	06119	D25 51.1K OHM
R44 - R47				NOT ASSIGNED		
R48	0699-2489	4	1	RESISTOR 10K +-0.1% .125W TF TC=0+-25	02499	W1206R031002BT
R49	0699-1391	5	1	RESISTOR 10K +-1% .125W TKF TC=0+-100	06119	D25 10K OHM
R50	0699-1391	5	1	RESISTOR 10K +-1% .125W TKF TC=0+-100	06119	D25 10K OHM
R51	0699-1391	5	1	RESISTOR 10K +-1% .125W TKF TC=0+-100	06119	D25 10K OHM
R52	0699-1361	9	1	RESISTOR 51.1 +-1% .125W TKF TC=0+-100	06119	D25 51.1 OHM
R53	0699-1361	9	1	RESISTOR 51.1 +-1% .125W TKF TC=0+-100	06119	D25 51.1 OHM
R54	0699-1435	8	1	RESISTOR 681 +-1% .125W TKF TC=0+-100	06119	D25 681 OHM
R55	0699-1415	4	1	RESISTOR 100 +-1% .125W TKF TC=0+-100	06119	D25 100 OHM
R56	0699-1435	8	1	RESISTOR 681 +-1% .125W TKF TC=0+-100	06119	D25 681 OHM
R57	0699-1435	8	1	RESISTOR 681 +-1% .125W TKF TC=0+-100	06119	D25 681 OHM
R58	0699-1435	8	1	RESISTOR 681 +-1% .125W TKF TC=0+-100	06119	D25 681 OHM
R59				NOT ASSIGNED		
R60	0699-1318	6	1	RESISTOR 1K +-1% .125W TKF TC=0+-100	06119	D25 1K OHM
R61 - R79				NOT ASSIGNED		
R80	1810-1064	8	1	NETWORK-RES 16-SMD 10.0K OHM X 15	09891	HM16B103G 100PPM
R81	0699-1391	5	1	RESISTOR 10K +-1% .125W TKF TC=0+-100	06119	D25 10K OHM
R82	1810-1231	1	1	NETWORK-RES 16-SMD 100.0 OHM X 8	09891	HM16S101G 100PPM
R83	1810-1231	1	1	NETWORK-RES 16-SMD 100.0 OHM X 8	09891	HM16S101G 100PPM
R84	1810-1231	1	1	NETWORK-RES 16-SMD 100.0 OHM X 8	09891	HM16S101G 100PPM
R85 - R97				NOT ASSIGNED		
R98	0699-1435	8	1	RESISTOR 681 +-1% .125W TKF TC=0+-100	06119	D25 681 OHM
R99	0699-1435	8	1	RESISTOR 681 +-1% .125W TKF TC=0+-100	06119	D25 681 OHM
R100	0699-1435	8	1	RESISTOR 681 +-1% .125W TKF TC=0+-100	06119	D25 681 OHM
R101	0698-8958	2	1	RESISTOR 511K +-1% .125W TF TC=0+-100	01074	H8
R102	1810-1231	1	1	NETWORK-RES 16-SMD 100.0 OHM X 8	09891	HM16S101G 100PPM
R103	0699-1415	4	1	RESISTOR 100 +-1% .125W TKF TC=0+-100	06119	D25 100 OHM
R104	0811-3605	8	1	RESISTOR .1 +-5% .5W PWM TC=0+-600	02499	SP-20
R105	0699-1318	6	1	RESISTOR 1K +-1% .125W TKF TC=0+-100	06119	D25 1K OHM
R106	0699-2489	4	1	RESISTOR 10K +-0.1% .125W TF TC=0+-25	02499	W1206R031002BT
R107	0699-2491	8	1	RESISTOR 20K +-0.1% .125W TF TC=0+-25	02499	W1206R032002BT
R108	0699-1415	4	1	RESISTOR 100 +-1% .125W TKF TC=0+-100	06119	D25 100 OHM
R109	0699-2489	4	1	RESISTOR 10K +-0.1% .125W TF TC=0+-25	02499	W1206R031002BT
R110	0699-2491	8	1	RESISTOR 20K +-0.1% .125W TF TC=0+-25	02499	W1206R032002BT
R111	0699-2489	4	1	RESISTOR 10K +-0.1% .125W TF TC=0+-25	02499	W1206R031002BT
R112	0699-2491	8	1	RESISTOR 20K +-0.1% .125W TF TC=0+-25	02499	W1206R032002BT
R113	0699-1428	9	1	RESISTOR 348 +-1% .125W TKF TC=0+-100	06119	D25 348 OHM
R114	0699-2846	7	1	RESISTOR 5K +-0.1% .125W TF TC=0+-25	02499	W1206R035001BT
R115	0699-2489	4	1	RESISTOR 10K +-0.1% .125W TF TC=0+-25	02499	W1206R031002BT
R116	0699-1318	6	1	RESISTOR 1K +-1% .125W TKF TC=0+-100	06119	D25 1K OHM
R117	0699-2489	4	1	RESISTOR 10K +-0.1% .125W TF TC=0+-25	02499	W1206R031002BT
R118	0699-1415	4	1	RESISTOR 100 +-1% .125W TKF TC=0+-100	06119	D25 100 OHM
R119	0699-1387	9	1	RESISTOR 6.81K +-1% .125W TKF TC=0+-100	06119	D25 6.81K OHM
R120	0699-1378	8	1	RESISTOR 2.61K +-1% .125W TKF TC=0+-100	06119	D25 2.61K OHM
R121	0699-1318	6	1	RESISTOR 1K +-1% .125W TKF TC=0+-100	06119	D25 1K OHM

†Refer to Section 7 for update information

*Factory Selected Component (Refer to Section 5)

△ Errata part change

Table 1-1. Replaceable Parts

Reference Designation	HP Part Number	C D	Qty.	Description	Mfr. Code	Mfr. Part Number
R122	0699-2489	4	1	RESISTOR 10K $\pm 0.1\%$.125W TF TC=0 \pm -25	02499	W1206R031002BT
R123	0699-2836	5	1	RESISTOR 15K $\pm 0.1\%$.125W TF TC=0 \pm -25	02499	W1206R031502BT
R124	0699-1318	6	1	RESISTOR 1K $\pm 1\%$.125W TKF TC=0 \pm -100	06119	D25 1K OHM
R125	0699-2489	4	1	RESISTOR 10K $\pm 0.1\%$.125W TF TC=0 \pm -25	02499	W1206R031002BT
R126	0699-2846	7	1	RESISTOR 5K $\pm 0.1\%$.125W TF TC=0 \pm -25	02499	W1206R035001BT
R127	0811-3605	8	1	RESISTOR .1 $\pm 5\%$.5W PWI TC=0 \pm 600	02499	SP-20
R128	0699-2489	4	1	RESISTOR 10K $\pm 0.1\%$.125W TF TC=0 \pm -25	02499	W1206R031002BT
R129	0699-2491	8	1	RESISTOR 20K $\pm 0.1\%$.125W TF TC=0 \pm -25	02499	W1206R032002BT
R130	0699-1415	4	1	RESISTOR 100 $\pm 1\%$.125W TKF TC=0 \pm -100	06119	D25 100 OHM
R131	0699-2489	4	1	RESISTOR 10K $\pm 0.1\%$.125W TF TC=0 \pm -25	02499	W1206R031002BT
R132	0811-3605	8	1	RESISTOR .1 $\pm 5\%$.5W PWI TC=0 \pm 600	02499	SP-20
R133	0699-1415	4	1	RESISTOR 100 $\pm 1\%$.125W TKF TC=0 \pm -100	06119	D25 100 OHM
R134	0699-1378	8	1	RESISTOR 2.61K $\pm 1\%$.125W TKF TC=0 \pm -100	06119	D25 2.61K OHM
R135	0699-2836	5	1	RESISTOR 15K $\pm 0.1\%$.125W TF TC=0 \pm -25	02499	W1206R031502BT
R136	0699-2489	4	1	RESISTOR 10K $\pm 0.1\%$.125W TF TC=0 \pm -25	02499	W1206R031002BT
R137	0699-1318	6	1	RESISTOR 1K $\pm 1\%$.125W TKF TC=0 \pm -100	06119	D25 1K OHM
R138	0699-1415	4	1	RESISTOR 100 $\pm 1\%$.125W TKF TC=0 \pm -100	06119	D25 100 OHM
R139	0811-3605	8	1	RESISTOR .1 $\pm 5\%$.5W PWI TC=0 \pm 600	02499	SP-20
R140	0699-2489	4	1	RESISTOR 10K $\pm 0.1\%$.125W TF TC=0 \pm -25	02499	W1206R031002BT
R141	0699-2491	8	1	RESISTOR 20K $\pm 0.1\%$.125W TF TC=0 \pm -25	02499	W1206R032002BT
R142	0699-2489	4	1	RESISTOR 10K $\pm 0.1\%$.125W TF TC=0 \pm -25	02499	W1206R031002BT
R143	0699-2489	4	1	RESISTOR 10K $\pm 0.1\%$.125W TF TC=0 \pm -25	02499	W1206R031002BT
R144	0699-1318	6	1	RESISTOR 1K $\pm 1\%$.125W TKF TC=0 \pm -100	06119	D25 1K OHM
R145	0699-2489	4	1	RESISTOR 10K $\pm 0.1\%$.125W TF TC=0 \pm -25	02499	W1206R031002BT
R146	0699-2489	4	1	RESISTOR 10K $\pm 0.1\%$.125W TF TC=0 \pm -25	02499	W1206R031002BT
R147	0811-3605	8	1	RESISTOR .1 $\pm 5\%$.5W PWI TC=0 \pm 600	02499	SP-20
R148	0699-2489	4	1	RESISTOR 10K $\pm 0.1\%$.125W TF TC=0 \pm -25	02499	W1206R031002BT
R149	0699-2489	4	1	RESISTOR 10K $\pm 0.1\%$.125W TF TC=0 \pm -25	02499	W1206R031002BT
R150	0699-2489	4	1	RESISTOR 10K $\pm 0.1\%$.125W TF TC=0 \pm -25	02499	W1206R031002BT
R151	0699-2489	4	1	RESISTOR 10K $\pm 0.1\%$.125W TF TC=0 \pm -25	02499	W1206R031002BT
R152	0699-2491	8	1	RESISTOR 20K $\pm 0.1\%$.125W TF TC=0 \pm -25	02499	W1206R032002BT
R153	0699-1356	2	1	RESISTOR 31.6 $\pm 1\%$.125W TKF TC=0 \pm -100	06119	D25 31.6 OHM
R154	0699-1356	2	1	RESISTOR 31.6 $\pm 1\%$.125W TKF TC=0 \pm -100	06119	D25 31.6 OHM
R155	0699-1356	2	1	RESISTOR 31.6 $\pm 1\%$.125W TKF TC=0 \pm -100	06119	D25 31.6 OHM
R156	0699-1356	2	1	RESISTOR 31.6 $\pm 1\%$.125W TKF TC=0 \pm -100	06119	D25 31.6 OHM
R157	0699-1448	3	1	RESISTOR 316K $\pm 1\%$.125W TKF TC=0 \pm -100	06119	D25 316K OHM
R158	0811-3605	8	1	RESISTOR .1 $\pm 5\%$.5W PWI TC=0 \pm 600	02499	SP-20
R159	0699-1356	2	1	RESISTOR 31.6 $\pm 1\%$.125W TKF TC=0 \pm -100	06119	D25 31.6 OHM
R160	0699-2491	8	1	RESISTOR 20K $\pm 0.1\%$.125W TF TC=0 \pm -25	02499	W1206R032002BT
R161 - R164				NOT ASSIGNED		
R165	2100-0670	6	1	RESISTOR-TRMR 10K 10% TKF SIDE-ADJ	04568	67XR
R166	0699-2491	8	1	RESISTOR 20K $\pm 0.1\%$.125W TF TC=0 \pm -25	02499	W1206R032002BT
R167	0699-2491	8	1	RESISTOR 20K $\pm 0.1\%$.125W TF TC=0 \pm -25	02499	W1206R032002BT
R168	1810-1231	1	1	NETWORK-RES 16-SMD 100.0 OHM X 8	09891	HM16S101G 100PPM
R169	1810-1231	1	1	NETWORK-RES 16-SMD 100.0 OHM X 8	09891	HM16S101G 100PPM
R170	0699-1503	1	1	RESISTOR 0 CWM	00746	MCR18JW00E
R171	0699-1503	1	1	RESISTOR 0 CWM	00746	MCR18JW00E
R172	0699-1503	1	1	RESISTOR 0 CWM	00746	MCR18JW00E
R173	0699-1503	1	1	RESISTOR 0 CWM	00746	MCR18JW00E
R174	0699-1503	1	1	RESISTOR 0 CWM	00746	MCR18JW00E

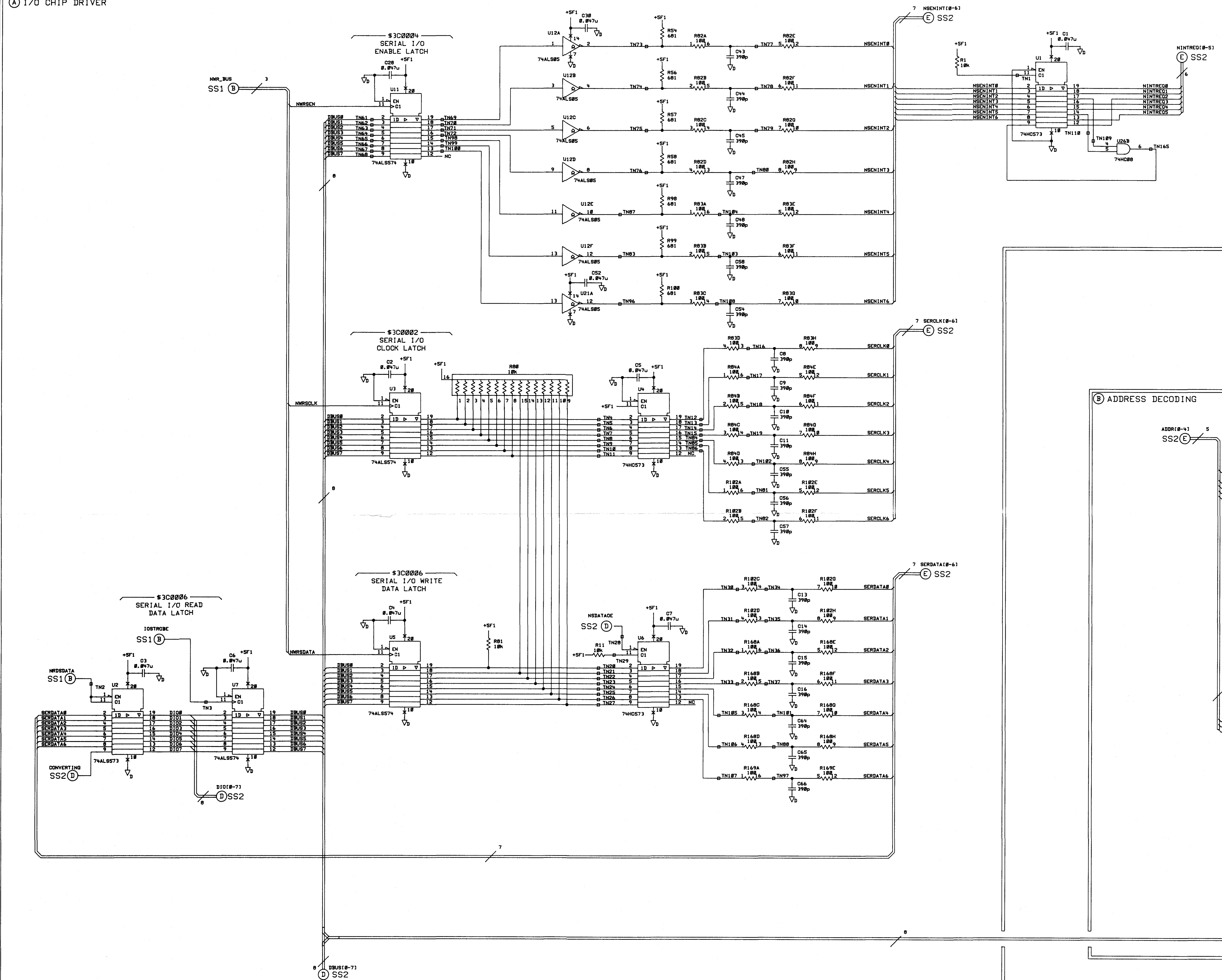
†Refer to Section 7 for update information.

*Factory Selected Component (Refer to Section 5)

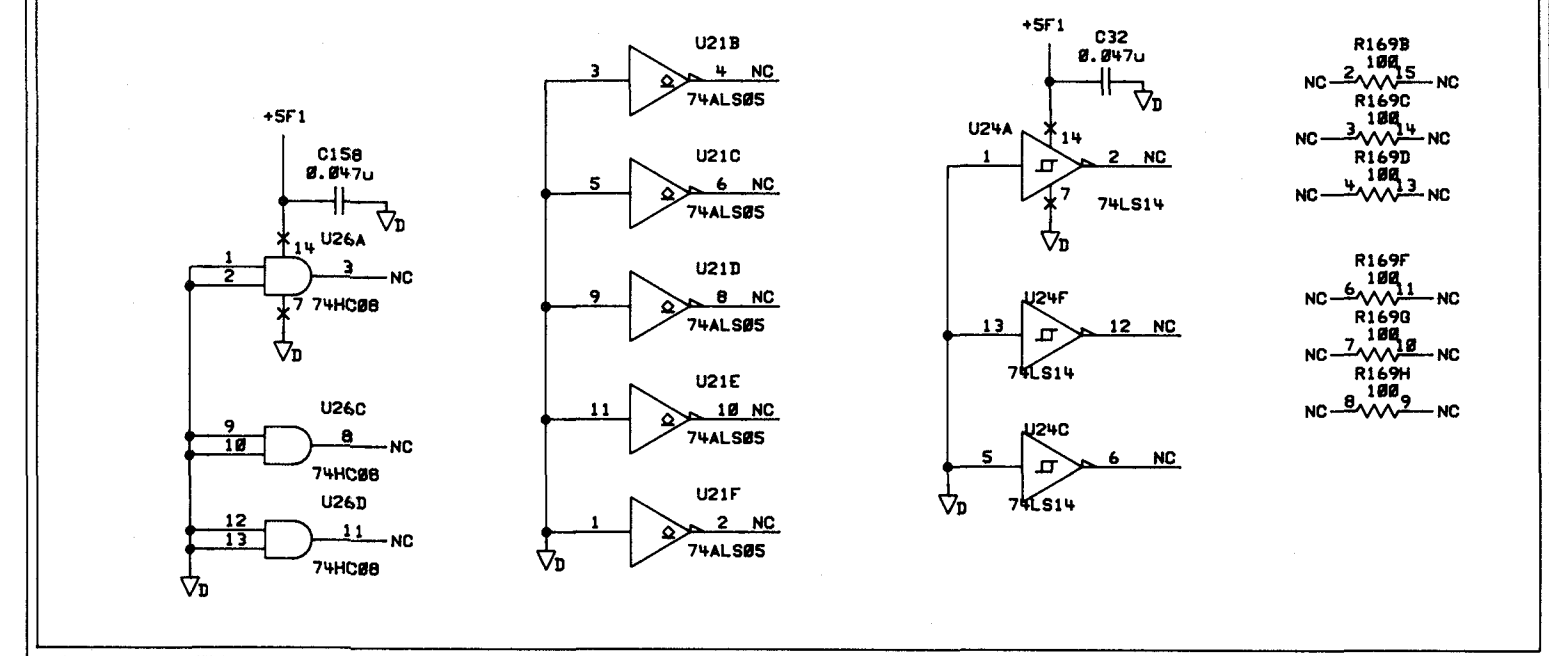
Δ Errata part change

SYM	REVISIONS	APPROVED	DATE
A	AS ISSUED WITH CHG'S	FAULKNER/RISA/AB	8/13/92
B	CHG'D PER PCO 107360	T.RISA/AB	10/23/92

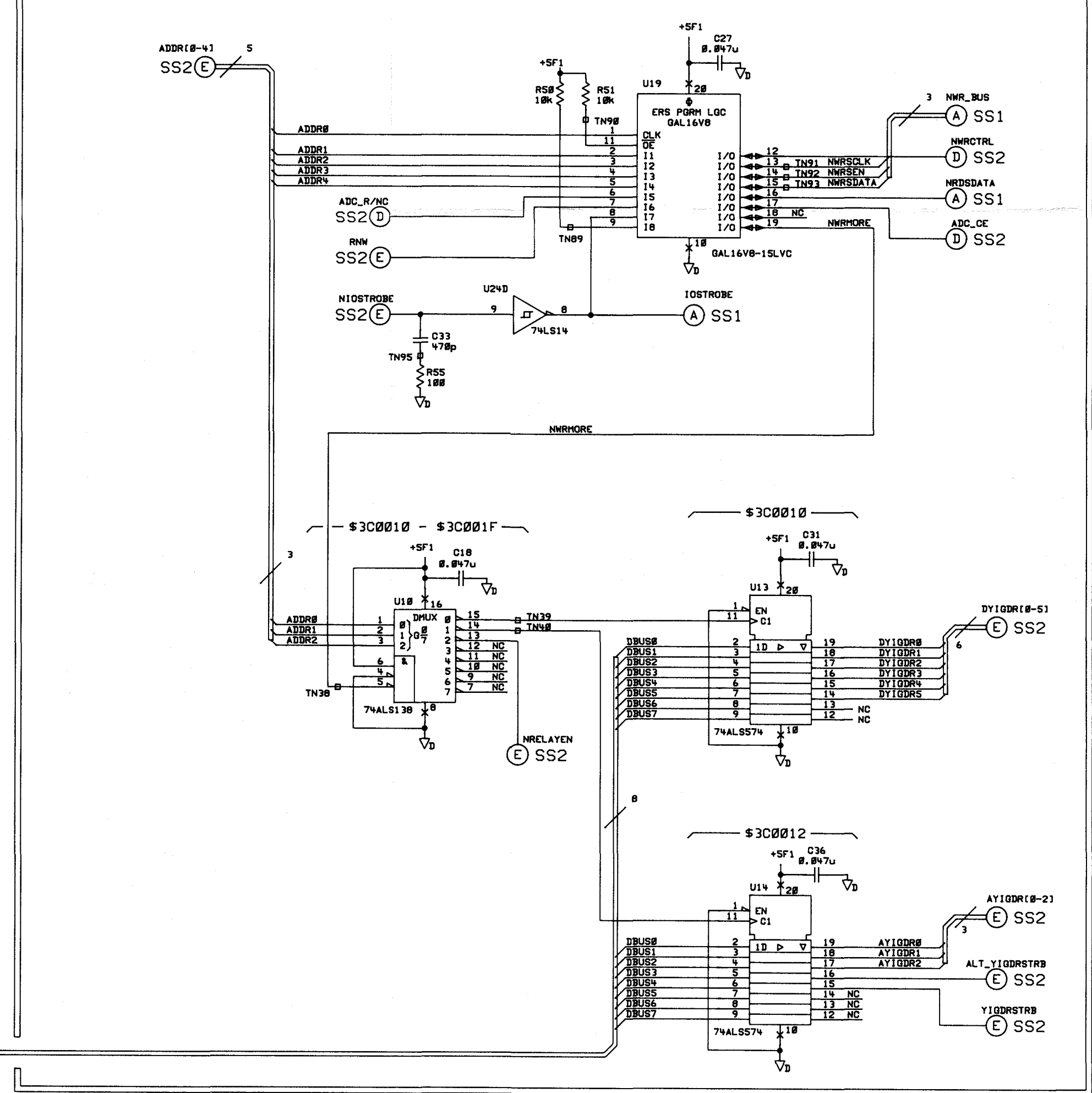
1/0 CHIP DRIVER



UNUSED COMPONENTS



ADDRESS DECODING



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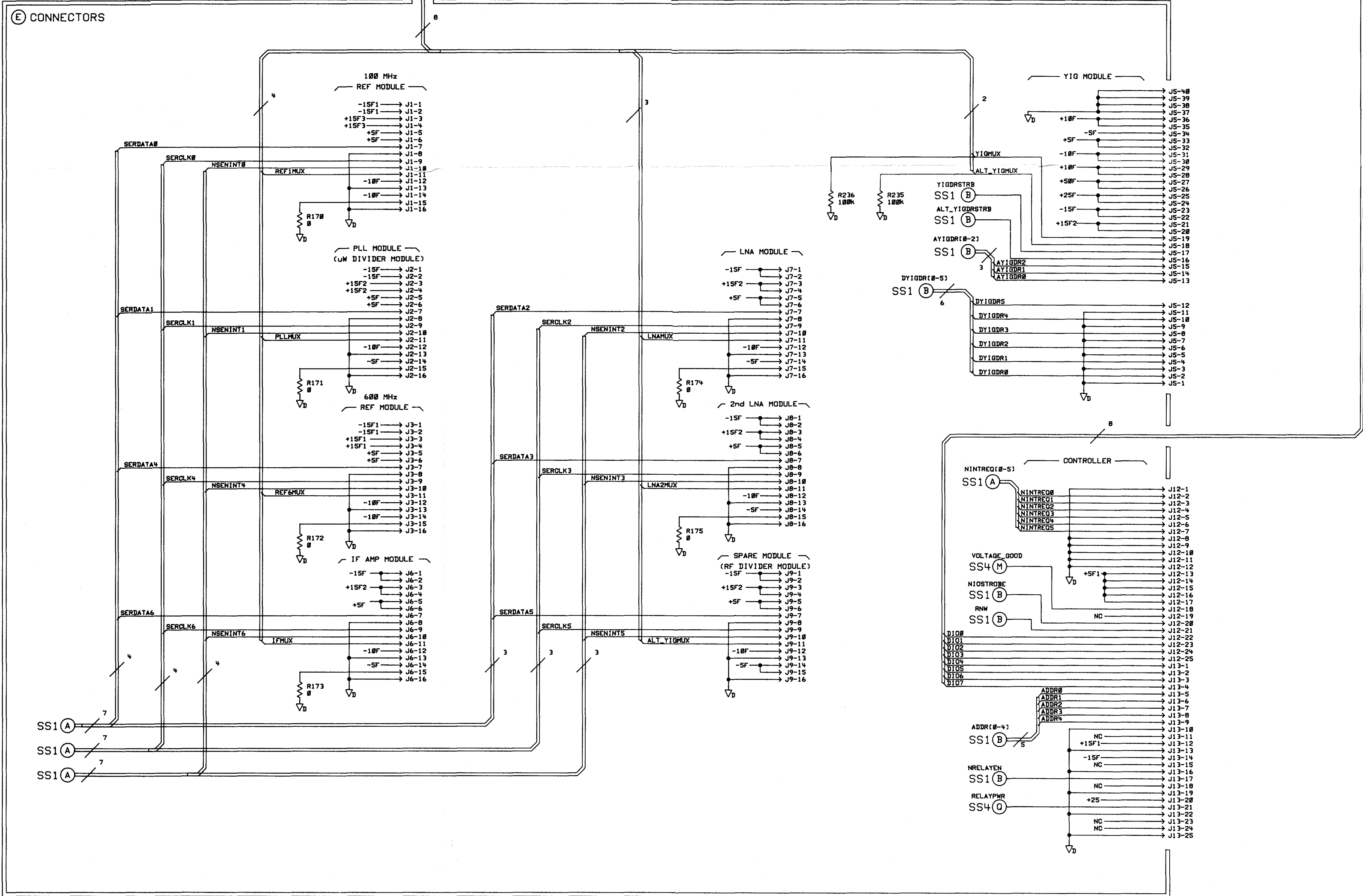
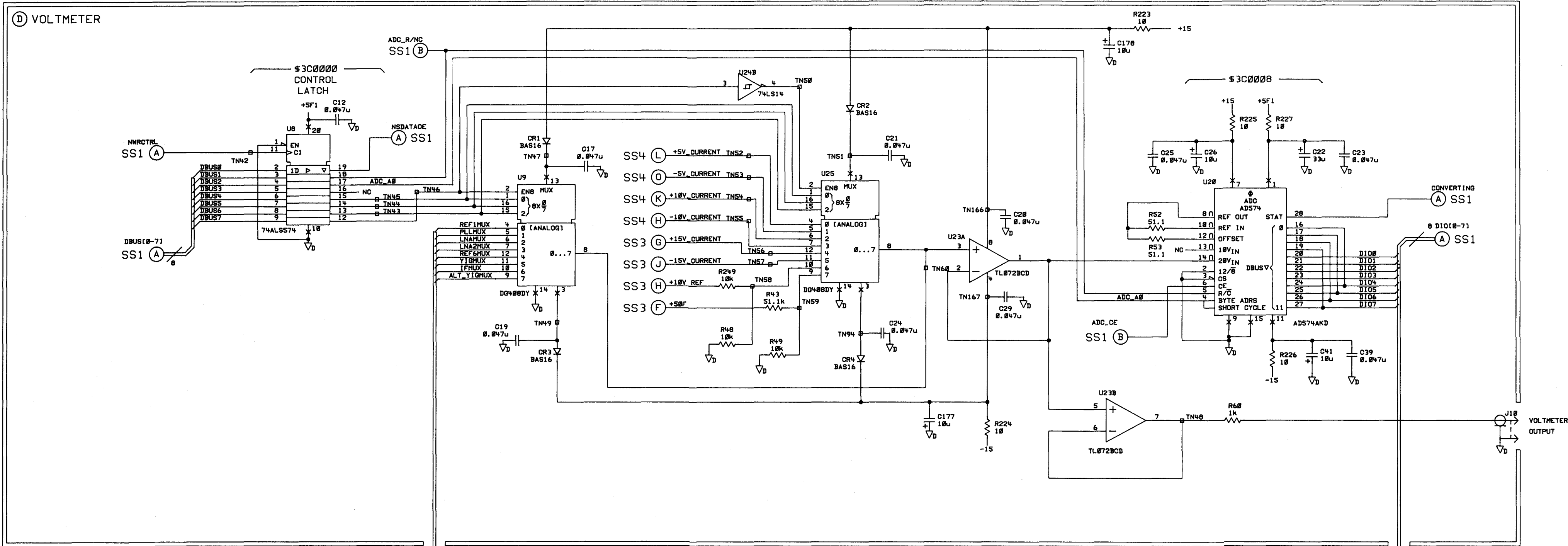
SHANNA BUBLITZ
JOE DUBNER
TAMMY RISA
SUPERSEDES DWG.
21FEB90
21FEB90
8/10/92
DATE
DATE
DATE

SCHEMATIC, PWA
I/O AND
POWER SUPPLY
BOARD
TITLE

s1bby111
FILENAME
SCALE NONE
SHEET 1 of 4
70425-60111
PART NUMBER
D-70425-60111-1



B-102292-10		D-70425-60111-1	
SYM	REVISIONS	APPROVED	DATE
A	AS ISSUED WITH CHG'S	FAULKNER/RISA/AB	8/13/92
B	CHG'D PER PCO 107360	T.RISA/AB	10/23/92



I/O BOARD (60111-J5)	YIG MODULE (60106-J1)
GND 40	1 GND
GND 39	2 GND
GND 38	3 GND
GND 37	4 GND
+10F 36	5 +10V
+10F 35	6 +10V
+5F 34	7 -5V
+5F 33	8 +5V
+5F 32	9 +5V
-10F 31	10 -10V
-10F 30	11 -10V
+10F 29	12 +10V
+10F 28	13 +10V
+50F 27	14 +50V
+50F 26	15 +50V
+25F 25	16 +25V
+25F 24	17 +25V
-15F 23	18 -15V
-15F 22	19 -15V
+15F 21	20 +15V
+15F 20	21 +15V
YIGMUX 19	22 STD_MUX
SPAREMUX 18	23 ALT_MUX
YIGDRSTRB 17	24 STD_NRWEN
ALT_YIGDRSTRB 16	25 ALT_NRWEN
AYIGDR2 15	26 ADDR2
AYIGDR1 14	27 ADDR1
AYIGDR0 13	28 ADDR0
DIIGDR5 12	29 DBUSS
GND 11	30 GND
DIIGDR4 10	31 DBUS4
GND 9	32 GND
DIIGDR3 8	33 DBUS3
GND 7	34 GND
DIIGDR2 6	35 DBUS2
GND 5	36 GND
DIIGDR1 4	37 DBUS1
GND 3	38 GND
DIIGDR0 2	39 DBUS0
GND 1	40 GND

I/O BOARD (60111)	CONTROLLER BOARD (60112)
GND J12-1	J2-1 GND
NINTRE00 J12-2	J2-2 NINTRE00
NINTRE01 J12-3	J2-3 NINTRE01
NINTRE02 J12-4	J2-4 NINTRE02
NINTRE03 J12-5	J2-5 NINTRE03
NINTRE04 J12-6	J2-6 NINTRE04
NINTRE05 J12-7	J2-7 NINTRE05
GND J12-8	J2-8 GND
GND J12-9	J2-9 GND
GND J12-10	J2-10 GND
GND J12-11	J2-11 GND
GND J12-12	J2-12 GND
+5F1 J12-13	J2-13 +5V
+5F1 J12-14	J2-14 +5V
+5F1 J12-15	J2-15 +5V
+5F1 J12-16	J2-16 +5V
+5F1 J12-17	J2-17 +5V
VOLTAGE_GOOD J12-18	J2-18 NC
NC J12-19	J2-19 NC
NIOSTROBE J12-20	J2-20 IOB_STB_N
RNW J12-21	J2-21 RNW
DI00 J12-22	J2-22 BD0
DI01 J12-23	J2-23 BD1
DI02 J12-24	J2-24 BD2
DI03 J12-25	J2-25 BD3
DI04 J13-1	J3-1 BD4
DI05 J13-2	J3-2 BD5
DI06 J13-3	J3-3 BD6
DI07 J13-4	J3-4 BD7
ADDR0 J13-5	J3-5 BA1
ADDR1 J13-6	J3-6 BA2
ADDR2 J13-7	J3-7 BA3
ADDR3 J13-8	J3-8 BA4
ADDR4 J13-9	J3-9 BA5
GND J13-10	J3-10 GND
NC J13-11	J3-11 NC
+15F1 J13-12	J3-12 +15F1
GND J13-13	J3-13 GND
-15F1 J13-14	J3-14 NC
NC J13-15	J3-15 NC
GND J13-16	J3-16 GND
DMUX2 J13-17	J3-17 DMUX2
NC J13-18	J3-18 NC
GND J13-19	J3-19 GND
+25 J13-20	J3-20 +25
RELAYPWR J13-21	J3-21 RELAYPWR
GND J13-22	J3-22 GND
NC J13-23	J3-23 NC
NC J13-24	J3-24 NC
GND J13-25	J3-25 GND

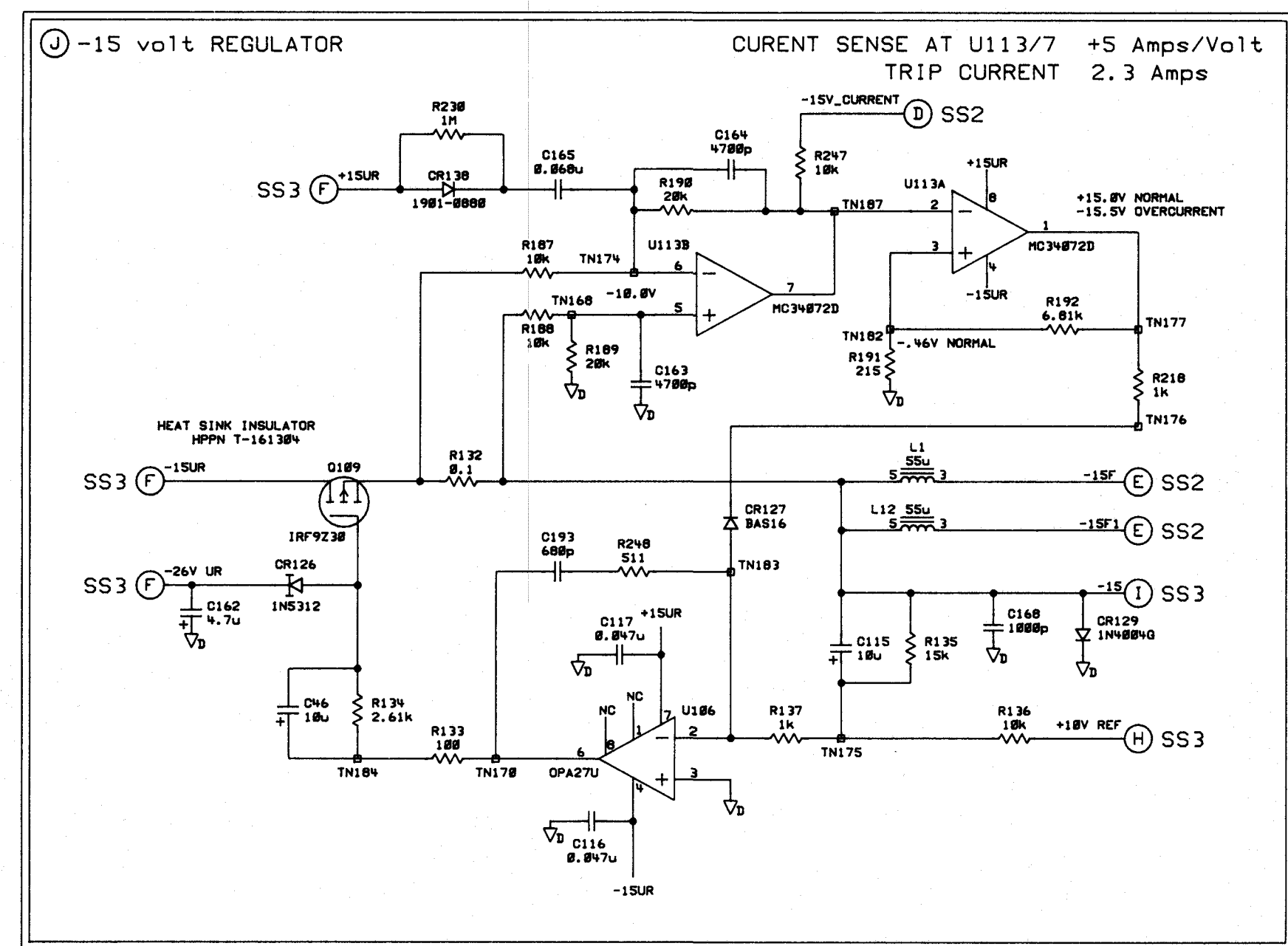
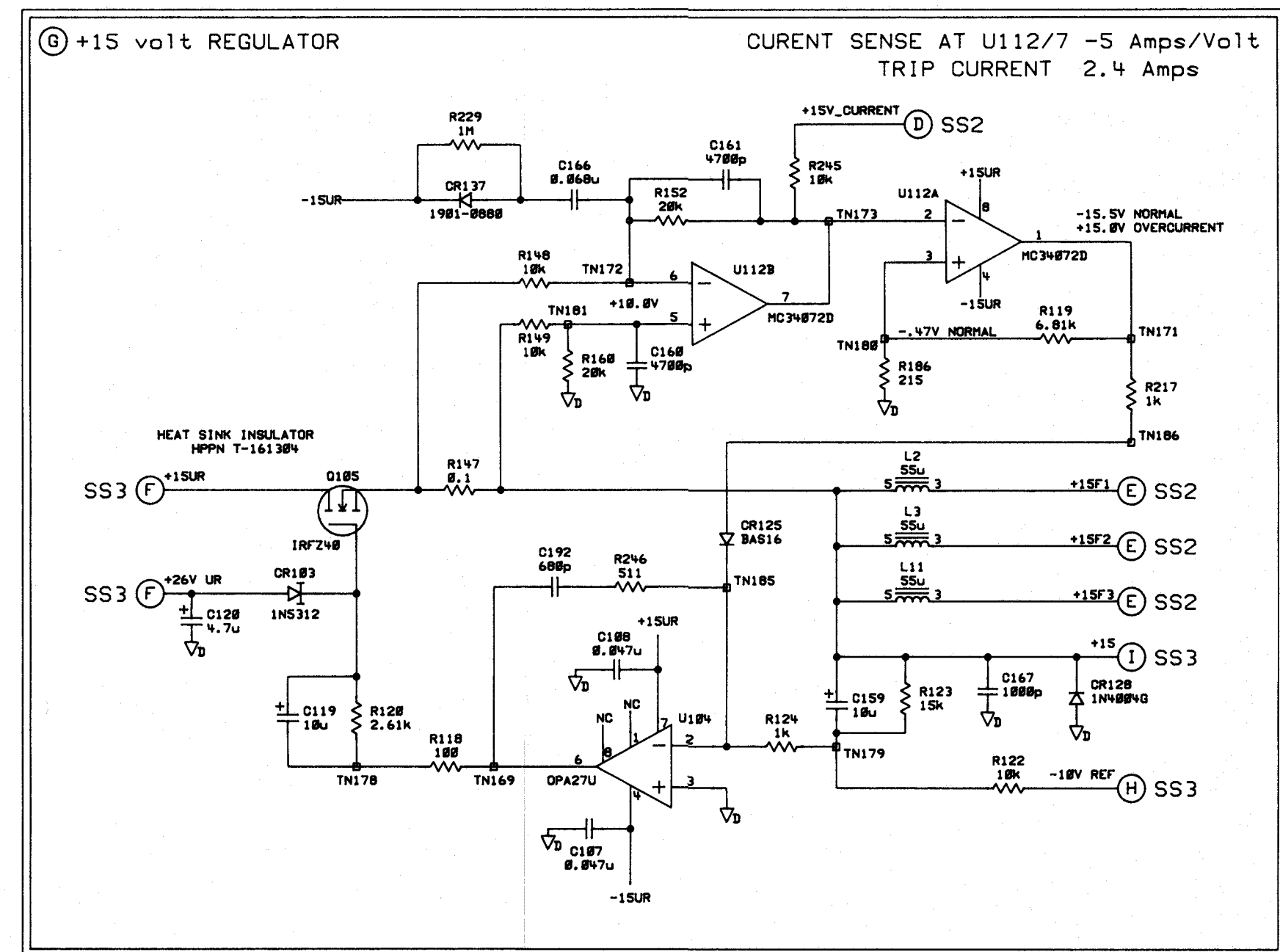
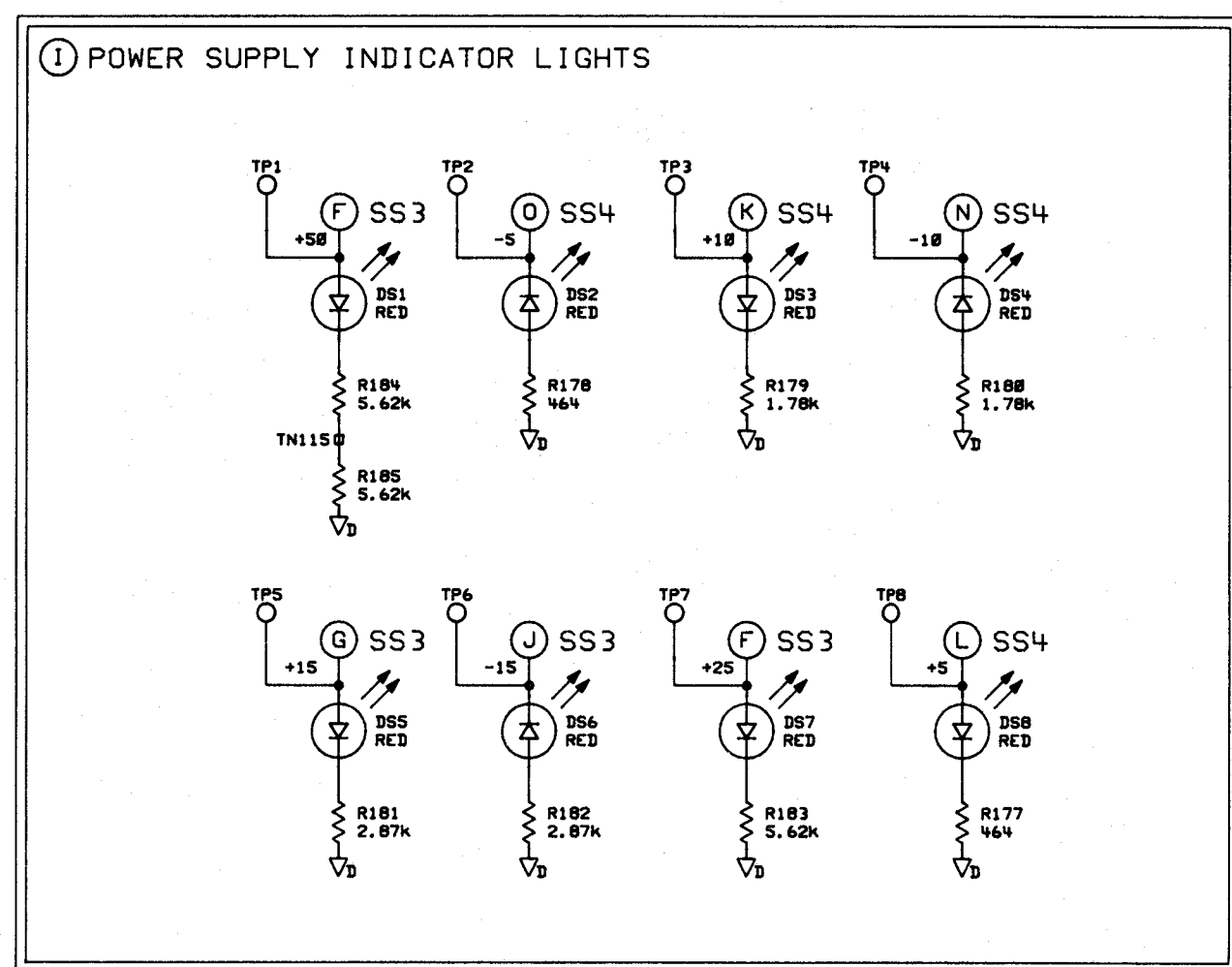
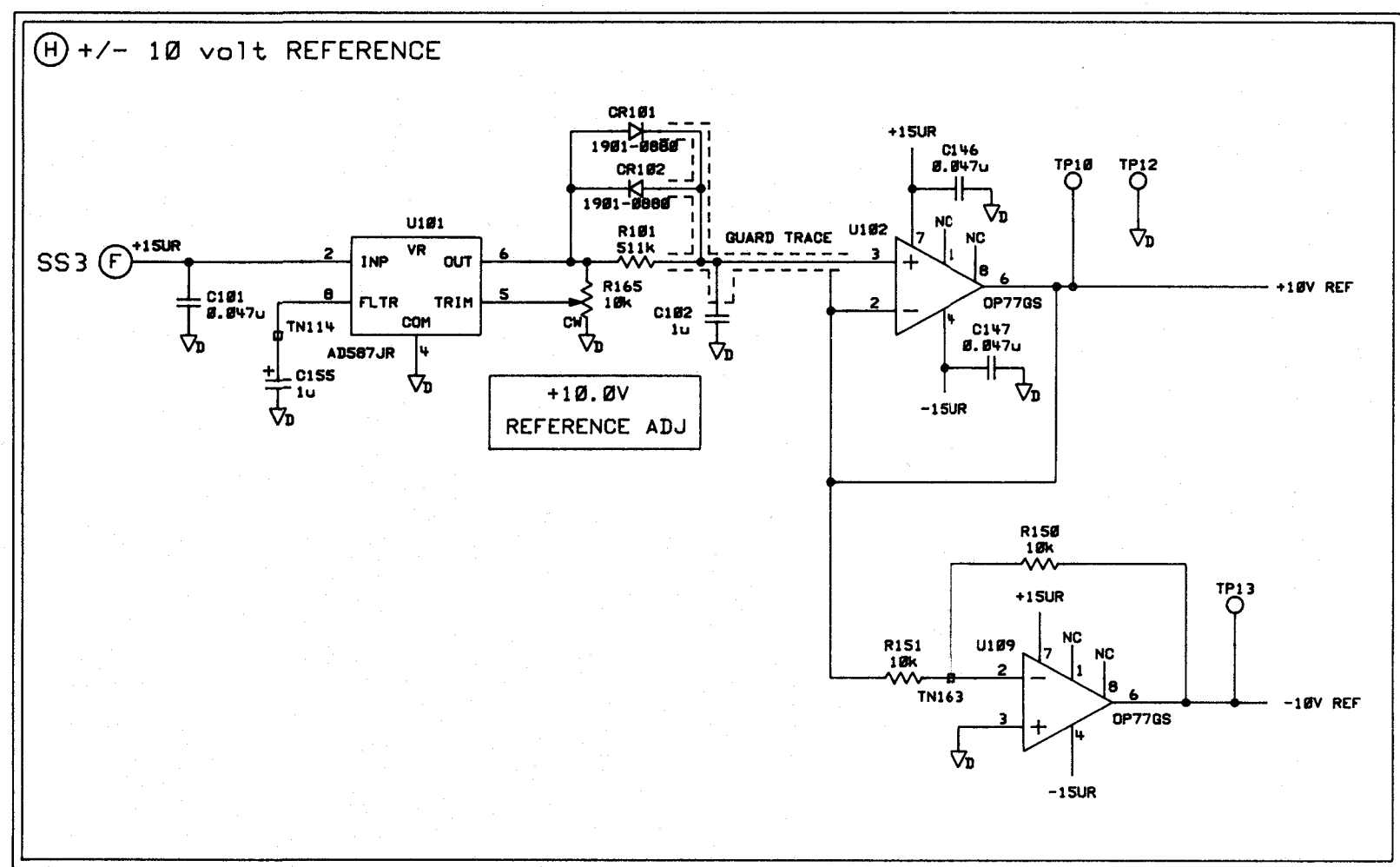
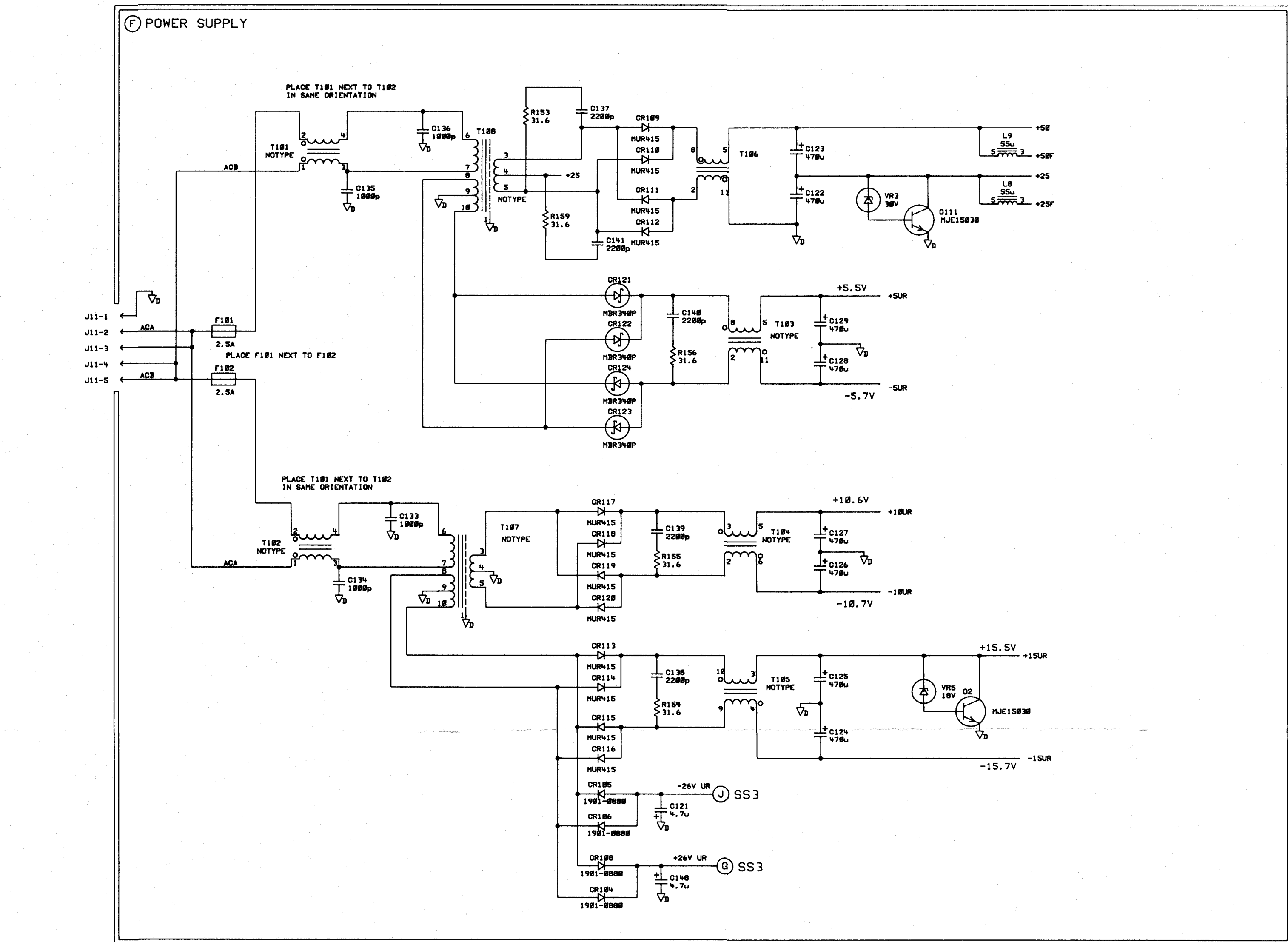
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SHANNA BUBLITZ DRAWN BY	21FEB90 DATE
JOE DUBNER ENGINEER/CHECKER	21FEB90 DATE
TAMMY RISA RELEASE TO PROD.	8/10/92 DATE
SUPERSEDES DWG.	

SCHEMATIC, PWA
I/O AND
POWER SUPPLY
BOARD

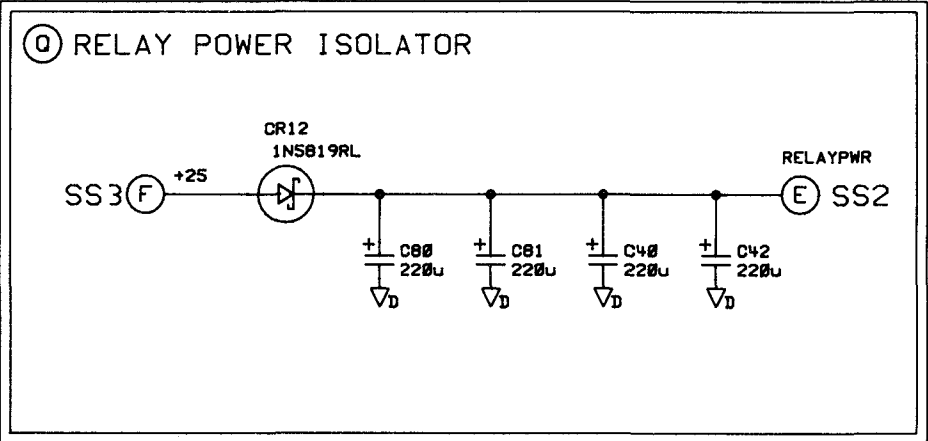
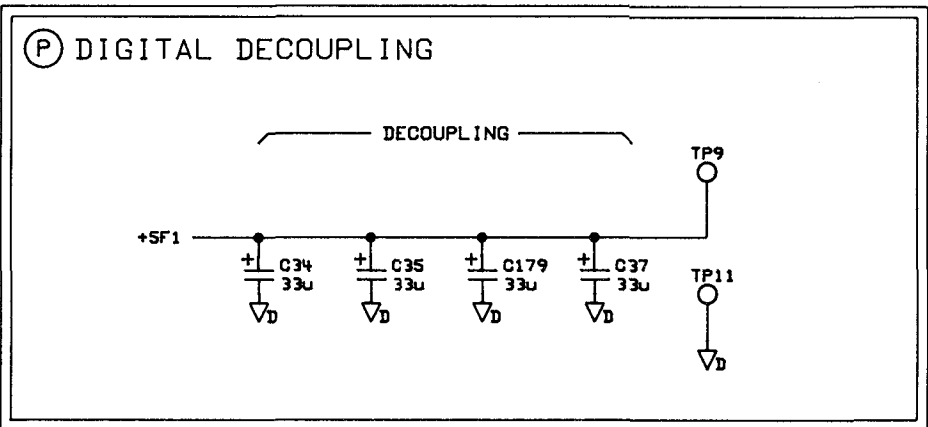
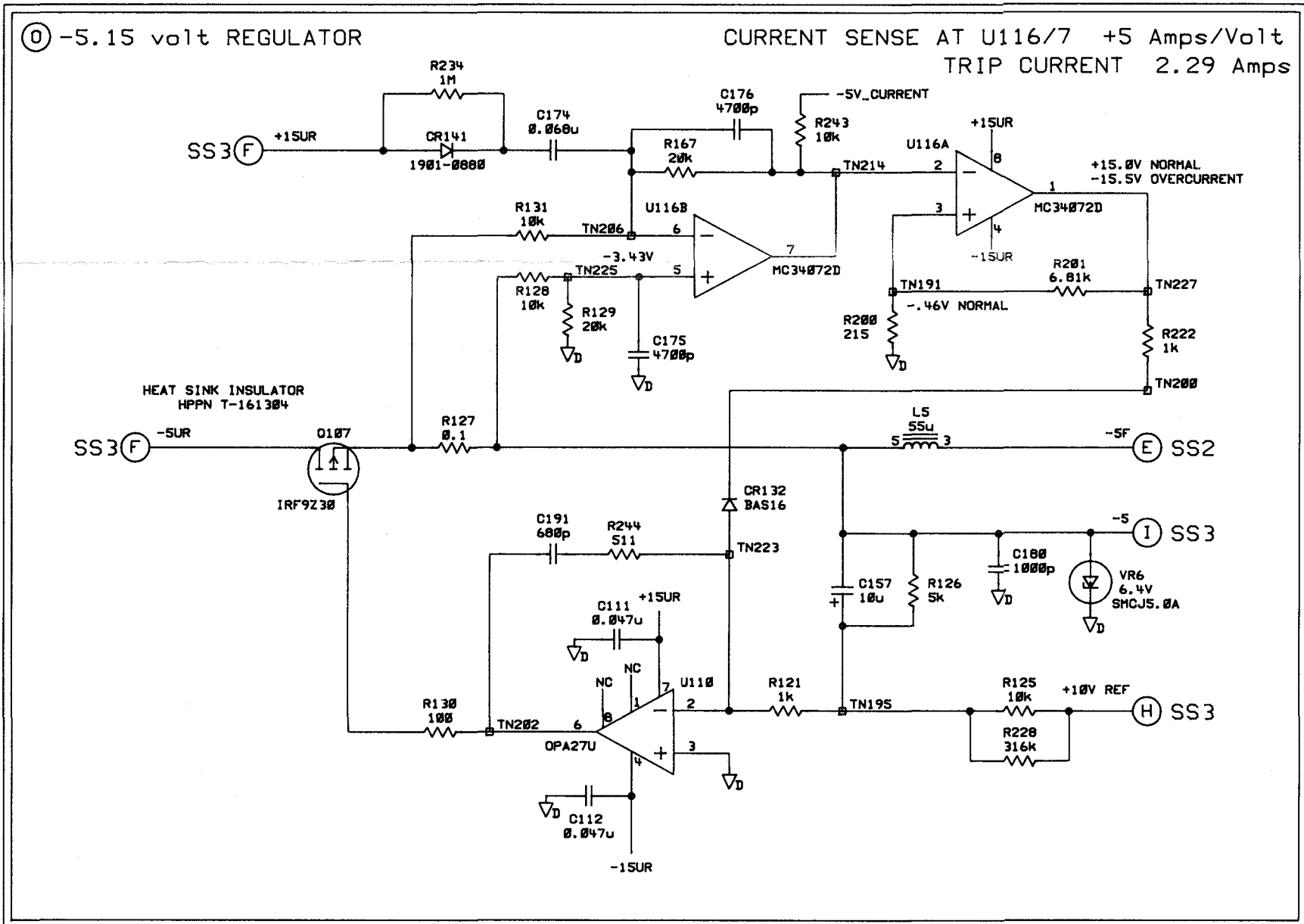
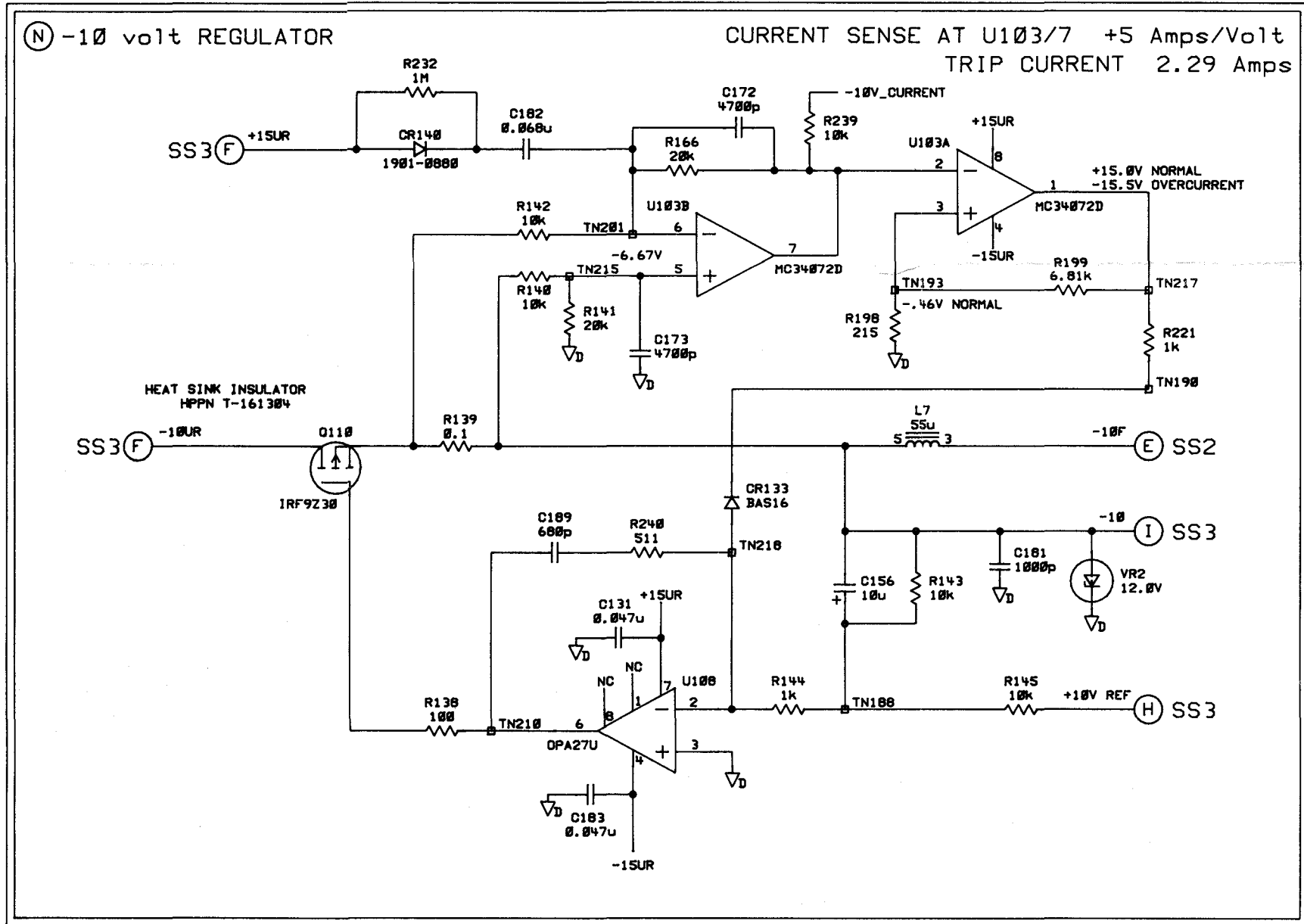
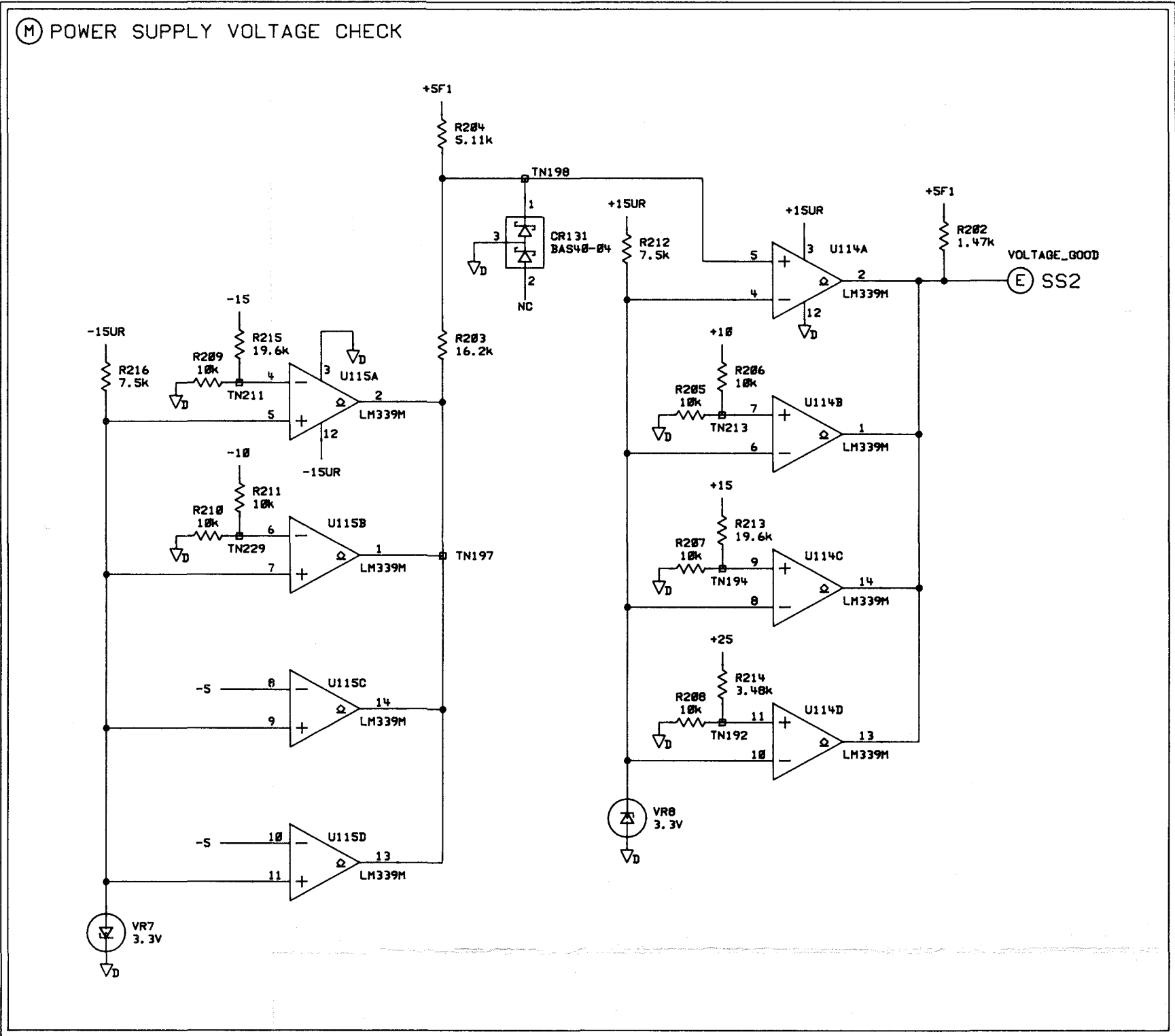
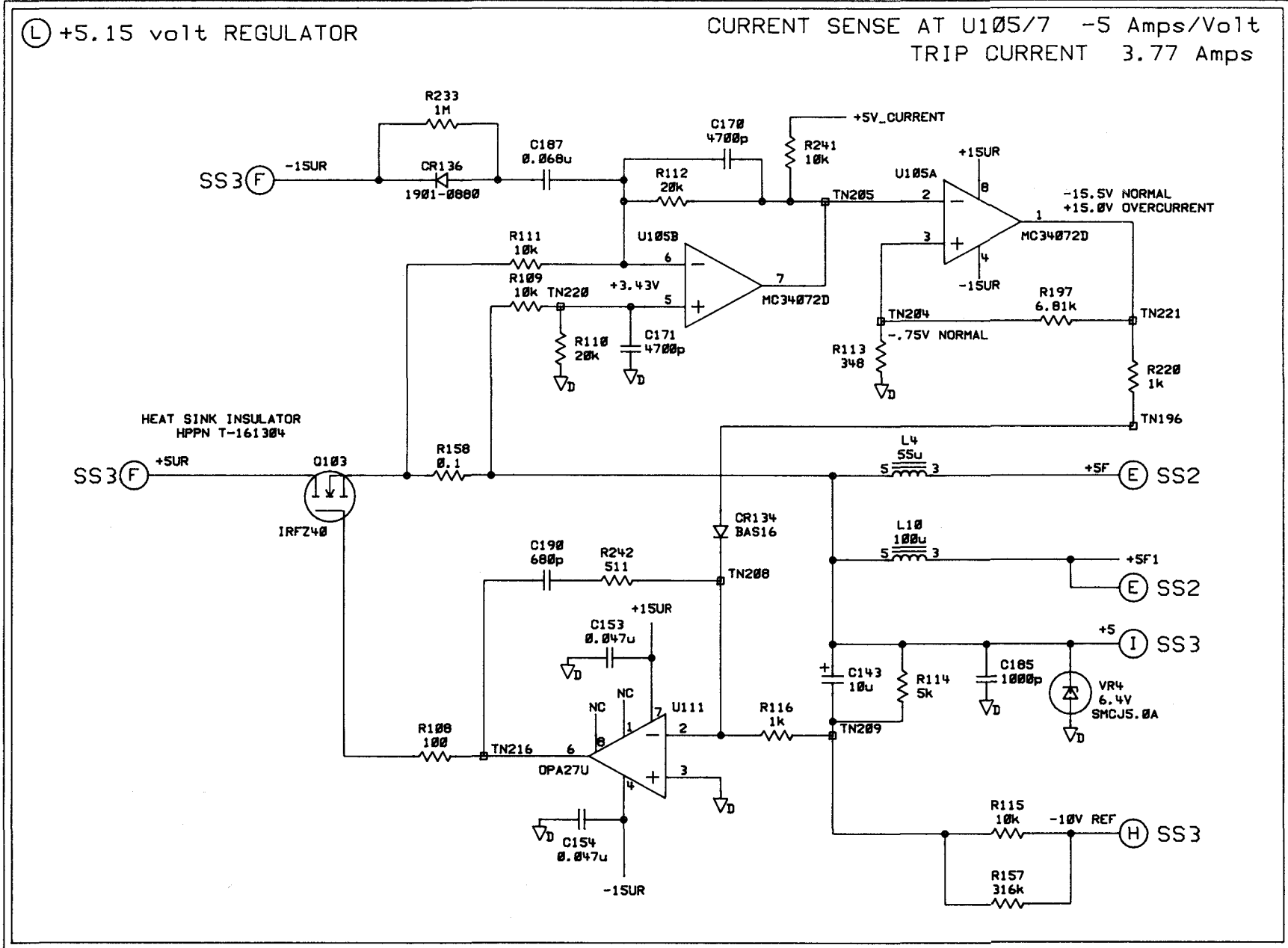
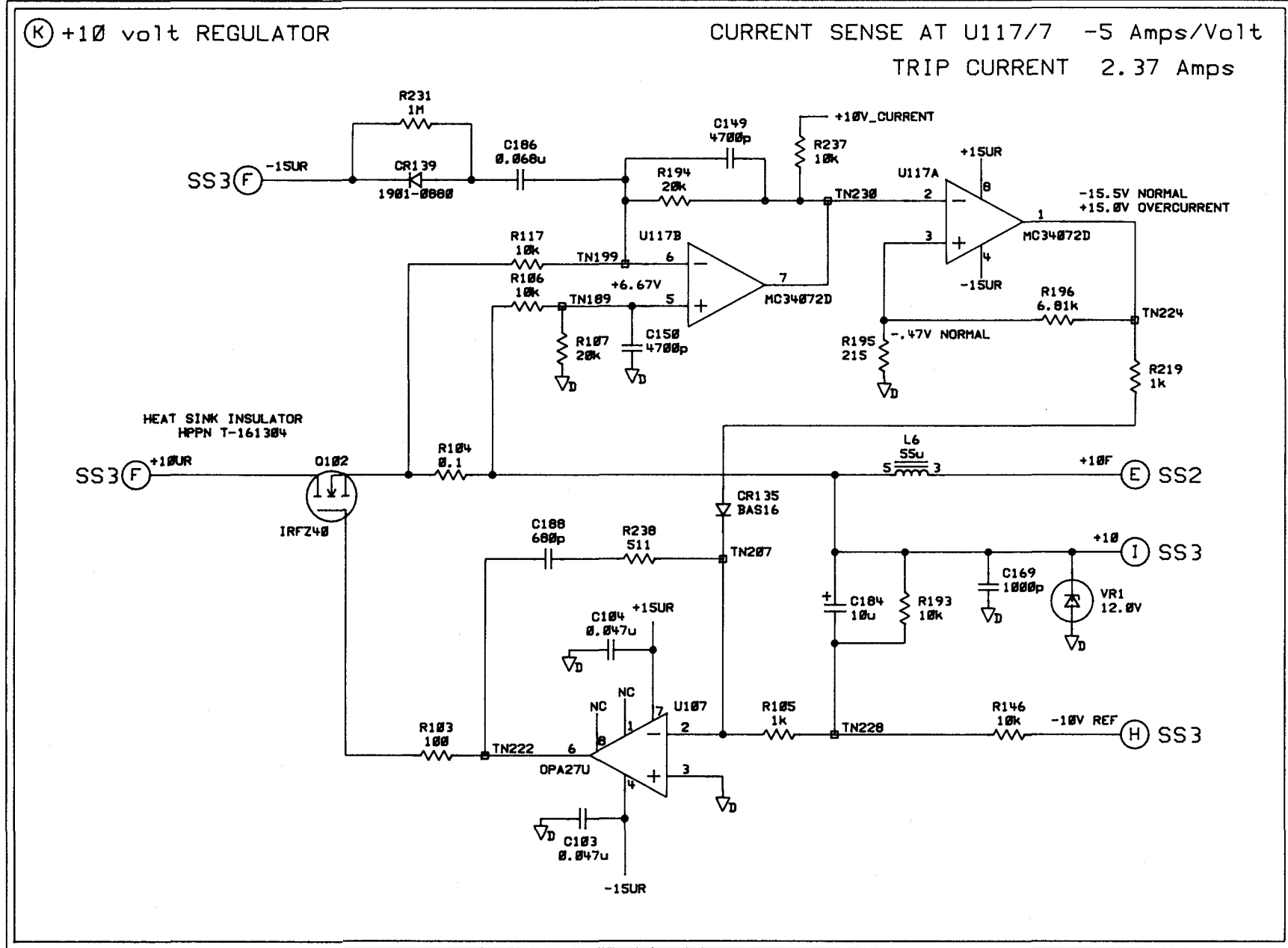
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SHEET 2 OF 4	70425-60111 PART NUMBER
	D-70425-60111-1

B-102292-10		D-70425-60111-1	
SYM	REVISIONS	APPROVED	DATE
A	AS ISSUED WITH CHG'S	FAULKNER/RISA/AB	8/13/92
B	CHG'D PER PCD 107360	T.RISA/AB	10/23/92



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B-102292-10		D-70425-60111-1	
SYM	REVISIONS	APPROVED	DATE
A	AS ISSUED WITH CHG'S	FAULKNER/RISA/AB	8/13/92
B	CHG'D PER PCO 107360	T.RISA/AB	10/23/92



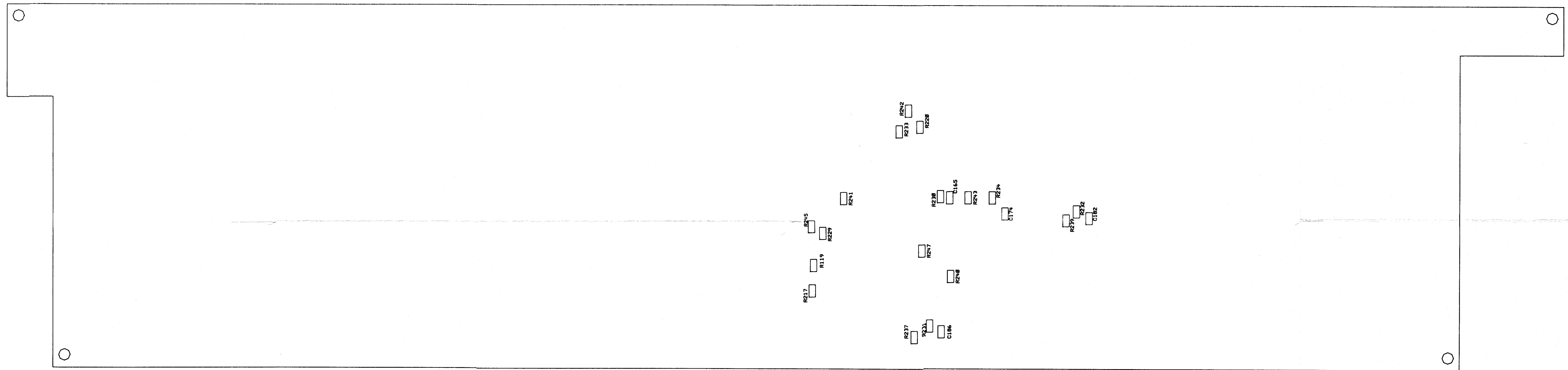
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TAMMY RISA RELEASE TO PROD.	8/10/92 DATE
SUPERSEDES DWG.	

SCHEMATIC, PWA
I/O AND
POWER SUPPLY
BOARD

TITLE

s4bby111 FILENAME	HEWLETT PACKARD
SCALE NONE	
SHEET 4 of 4	70425-60111 PART NUMBER
D-70425-60111-1	



70425-60111 BACK

Component-Level Information Packet for 70425-60112

A6A2 Controller



**HP Part No. 70425-61807
Printed in USA September 1995**

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1400 Fountaingrove Parkway, Santa Rosa, CA 95403-1799, USA

Table 1-1. Replaceable Parts

Reference Designation	HP Part Number	C D	Qty.	Description	Mfr. Code	Mfr. Part Number
A6A2						
A6A2	70425-60112	7	1	BD AY-CONTROLLER	28480	70425-60112
C1	0180-4287	5	1	CAP-FXD 10uF + -20% 35 V TA	28480	0180-4287
C2	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C3	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C4	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C5	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C6 - C9				NOT ASSIGNED		
C10	0160-6222	0	1	CAP-FXD 0.1uF + -10% 50 V CER X7R	09939	GRM42-2X7R104K050V
C11	0160-6222	0	1	CAP-FXD 0.1uF + -10% 50 V CER X7R	09939	GRM42-2X7R104K050V
C12	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C13	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C14	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C15 - C19				NOT ASSIGNED		
C20	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C21	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C22 - C29				NOT ASSIGNED		
C30	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C31	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C32	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C33 - C39				NOT ASSIGNED		
C40	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C41	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C42	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C43	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C44 - C45				NOT ASSIGNED		
C46	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C47	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C48 - C49				NOT ASSIGNED		
C50	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C51	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C52 - C59				NOT ASSIGNED		
C60	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C61	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C62	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C63 - C71				NOT ASSIGNED		
C72	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C73				NOT ASSIGNED		
C74	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C75	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C76 - C81				NOT ASSIGNED		
C82	0180-4287	5	1	CAP-FXD 10uF + -20% 35 V TA	28480	0180-4287
C83				NOT ASSIGNED		
C84	0160-6222	0	1	CAP-FXD 0.1uF + -10% 50 V CER X7R	09939	GRM42-2X7R104K050V
C85	0160-6222	0	1	CAP-FXD 0.1uF + -10% 50 V CER X7R	09939	GRM42-2X7R104K050V
C86				NOT ASSIGNED		
C87	0160-6222	0	1	CAP-FXD 0.1uF + -10% 50 V CER X7R	09939	GRM42-2X7R104K050V
C88	0160-6222	0	1	CAP-FXD 0.1uF + -10% 50 V CER X7R	09939	GRM42-2X7R104K050V
C89				NOT ASSIGNED		
C90	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C91	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C92 - C99				NOT ASSIGNED		
C100	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C101 - C109				NOT ASSIGNED		
C110	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C111	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C112	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C113	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C114				NOT ASSIGNED		
C115	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C116	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C117	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C

†Refer to Section 7 for update information.

*Factory Selected Component (Refer to Section 5).

Δ Errata part change.

Table 1-1. Replaceable Parts

Reference Designation	HP Part Number	C D	Qty.	Description	Mfr. Code	Mfr. Part Number
C118	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C119	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C120	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C121	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C122	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C123	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C124	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C125	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C126	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C127	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C128	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C129	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C130	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C131	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C132	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C133 - C139				NOT ASSIGNED		
C140	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C141	0180-3755	0	1	CAP-FXD 33uF + -20% 10 V TA	00039	NRD336M10R12
C142	0180-4287	5	1	CAP-FXD 10uF + -20% 35 V TA	28480	0180-4287
C143	0180-4287	5	1	CAP-FXD 10uF + -20% 35 V TA	28480	0180-4287
C144	0180-4287	5	1	CAP-FXD 10uF + -20% 35 V TA	28480	0180-4287
C145	0180-4287	5	1	CAP-FXD 10uF + -20% 35 V TA	28480	0180-4287
C146	0180-4287	5	1	CAP-FXD 10uF + -20% 35 V TA	28480	0180-4287
C147	0180-4287	5	1	CAP-FXD 10uF + -20% 35 V TA	28480	0180-4287
C148	0180-4287	5	1	CAP-FXD 10uF + -20% 35 V TA	28480	0180-4287
CR1	1906-0291	4	1	DIODE-DUAL 70V 100MA T0-236AA	28480	1906-0291
CR2	1906-0291	4	1	DIODE-DUAL 70V 100MA T0-236AA	28480	1906-0291
CR3	1906-0291	4	1	DIODE-DUAL 70V 100MA T0-236AA	28480	1906-0291
CR4	1906-0291	4	1	DIODE-DUAL 70V 100MA T0-236AA	28480	1906-0291
CR5	1906-0291	4	1	DIODE-DUAL 70V 100MA T0-236AA	28480	1906-0291
CR6 - CR10				NOT ASSIGNED		
CR11	1900-0072	7	1	DIODE-SCHOTTKY SM SIG	28480	1900-0072
CR12				NOT ASSIGNED		
CR13	1900-0072	7	1	DIODE-SCHOTTKY SM SIG	28480	1900-0072
DS1	1990-0486	6	1	LED-LAMP LUM-INT = 2MCD IF = 25MA-MAX BVR = 5V	28480	1990-0486
DS2	1990-0486	6	1	LED-LAMP LUM-INT = 2MCD IF = 25MA-MAX BVR = 5V	28480	1990-0486
DS3	1990-0486	6	1	LED-LAMP LUM-INT = 2MCD IF = 25MA-MAX BVR = 5V	28480	1990-0486
DS4	1990-0486	6	1	LED-LAMP LUM-INT = 2MCD IF = 25MA-MAX BVR = 5V	28480	1990-0486
J1	1251-8767	6	1	CONN-POST TYPE .100-PIN-SPCG 50-CONT	02946	66925-525
J2	1252-0868	4	1	CONN-POST TYPE .100-PIN-SPCG 25-CONT	03394	1002-225-2105
J3	1252-0868	4	1	CONN-POST TYPE .100-PIN-SPCG 25-CONT	03394	1002-225-2105
J4	1251-8600	6	1	CONN-POST TYPE .100-PIN-SPCG 16-CONT	28480	1251-8600
J5	1252-2195	4	1	CONN-POST TYPE .100-PIN-SPCG 4-CONT	02946	78208-104
J6	1252-2195	4	1	CONN-POST TYPE .100-PIN-SPCG 4-CONT	02946	78208-104
J7	1252-2195	4	1	CONN-POST TYPE .100-PIN-SPCG 4-CONT	02946	78208-104
J8	1252-2195	4	1	CONN-POST TYPE .100-PIN-SPCG 4-CONT	02946	78208-104
J9	1251-8332	1	1	CONN-POST TYPE .100-PIN-SPCG 14-CONT	28480	1251-8332
J10	1251-8332	1	1	CONN-POST TYPE .100-PIN-SPCG 14-CONT	28480	1251-8332
L140	9140-1170	4	1	INDUCTOR RF-CH-MLD 1.2UH + -20%	28480	9140-1170

†Refer to Section 7 for update information

*Factory Selected Component (Refer to Section 5)

Δ Errata part change

Table 1-1. Replaceable Parts

Reference Designation	HP Part Number	C D	Qty.	Description	Mfr. Code	Mfr. Part Number
MP1	70425-20112	3	1		28480	70425-20112
MP2				NOT ASSIGNED		
MP3	7121-4611	2	1	LABEL-INFORMATION .15-IN-WD .6-IN-LG	09002	
MP4	1251-5595	2	1	POLARIZING KEY-POST CONN	04726	3518
MP5	1251-5595	2	1	POLARIZING KEY-POST CONN	04726	3518
MP6	1251-5595	2	1	POLARIZING KEY-POST CONN	04726	3518
MP7	1200-1314	8	1	SOCKET-IC-DIP 32-CONT DIP DIP-SLDR	28480	1200-1314
MP8	1200-1314	8	1	SOCKET-IC-DIP 32-CONT DIP DIP-SLDR	28480	1200-1314
MP9	1251-5595	2	1	POLARIZING KEY-POST CONN	04726	3518
Q1	1854-1094	6	1	TRANSISTOR NPN SI SOT-89 (TO-243AB)	28480	1854-1094
R1	0699-1391	5	1	RESISTOR 10K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10K OHM
R2 - R12				NOT ASSIGNED		
R13	0699-1370	0	1	RESISTOR 1.21K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 1.21K OHM
R14 - R60				NOT ASSIGNED		
R61	0699-1391	5	1	RESISTOR 10K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10K OHM
R62	1810-1128	5	1	NETWORK-RES 16-SMD 4.7K OHM X 15	09891	HM16B472G 100PPM
R63 - R69				NOT ASSIGNED		
R70	1810-1064	8	1	NETWORK-RES 16-SMD 10.0K OHM X 15	09891	HM16B103G 100PPM
R71 - R84				NOT ASSIGNED		
R85	0699-1394	8	1	RESISTOR 14.7K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 14.7K OHM
R86 - R96				NOT ASSIGNED		
R97	0699-1406	3	1	RESISTOR 42.2K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 42.2K OHM
R98 - R110				NOT ASSIGNED		
R111	1810-1064	8	1	NETWORK-RES 16-SMD 10.0K OHM X 15	09891	HM16B103G 100PPM
R112	0699-1423	4	1	RESISTOR 215 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 215 OHM
R113	0699-1423	4	1	RESISTOR 215 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 215 OHM
R114	0699-1423	4	1	RESISTOR 215 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 215 OHM
R115	0699-1423	4	1	RESISTOR 215 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 215 OHM
R116 - R117				NOT ASSIGNED		
R118	0699-1318	6	1	RESISTOR 1K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 1K OHM
R119	0699-1318	6	1	RESISTOR 1K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 1K OHM
R120	0699-1431	4	1	RESISTOR 464 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 464 OHM
R121	0699-1431	4	1	RESISTOR 464 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 464 OHM
R122	0699-1431	4	1	RESISTOR 464 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 464 OHM
R123	0699-1431	4	1	RESISTOR 464 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 464 OHM
R124	0699-1318	6	1	RESISTOR 1K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 1K OHM
R125	0699-1431	4	1	RESISTOR 464 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 464 OHM
R126	0699-1318	6	1	RESISTOR 1K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 1K OHM
R127	0699-1431	4	1	RESISTOR 464 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 464 OHM
R128	1810-1064	8	1	NETWORK-RES 16-SMD 10.0K OHM X 15	09891	HM16B103G 100PPM
S1 - R109				NOT ASSIGNED		
S110	3101-1856	5	1	SWITCH-DIP SL 8-1A 0.1A 50VDC	02483	11P-1434
S111	3101-1856	5	1	SWITCH-DIP SL 8-1A 0.1A 50VDC	02483	11P-1434
TP1 - S69				NOT ASSIGNED		
TP70	1251-0600	0	1	CONNECTOR-SGL CONT PIN 1.14-MM-BSC-SZ SQ	03418	16-06-0034
TP71	1251-0600	0	1	CONNECTOR-SGL CONT PIN 1.14-MM-BSC-SZ SQ	03418	16-06-0034
TP72 - TP139				NOT ASSIGNED		
TP140	1251-0600	0	1	CONNECTOR-SGL CONT PIN 1.14-MM-BSC-SZ SQ	03418	16-06-0034
TP141	1251-0600	0	1	CONNECTOR-SGL CONT PIN 1.14-MM-BSC-SZ SQ	03418	16-06-0034
U1	1826-1897	8	1	IC MISC SINGLE 8 PIN PLSTC-SOIC	28480	1826-1897
U2	1820-5566	4	1	IC SCHMITT-TRIG TTL/F INV HEX	28480	1820-5566
U3	1820-4243	2	1	IC GATE TTL/ALS AND QUAD 2-INP	28480	1820-4243
U4	1820-4250	1	1	IC INV TTL/ALS HEX	28480	1820-4250
U5	1820-4243	2	1	IC GATE TTL/ALS AND QUAD 2-INP	28480	1820-4243
U6	1820-4243	2	1	IC GATE TTL/ALS AND QUAD 2-INP	28480	1820-4243
U7 - U9				NOT ASSIGNED		
U10	1820-5416	3	1	IC-16-BIT MPU, PGA, 8MHZ, CHMOS	06347	HD68HC0008Y
U11	70425-85002	6	1		28480	70425-85002
U12	1820-4247	6	1	IC GATE TTL/ALS OR QUAD 2-INP	28480	1820-4247

†Refer to Section 7 for update information

*Factory Selected Component (Refer to Section 5)

Δ Errata part change

Table 1-1. Replaceable Parts

Reference Designation	HP Part Number	C D	Qty.	Description	Mfr. Code	Mfr. Part Number
U13	1820-4271	6	1	IC CNTR TTL/ALS BIN SYNCHRO	28480	1820-4271
U14 - U19				NOT ASSIGNED		
U20	1813-0708	1	1	CLK-OSC-XTAL STD 16.0-MHZ 0.01%	07919	
U21	70425-85003	7	1		28480	70425-85003
U22 - U29				NOT ASSIGNED		
U30	70425-85004	8	1		28480	70425-85004
U31 - U39				NOT ASSIGNED		
U40	1818-4218	6	1	IC 256K-BIT SRAM 100-NS CMOS	28480	1818-4218
U41	1818-4218	6	1	IC 256K-BIT SRAM 100-NS CMOS	28480	1818-4218
U42	1818-4218	6	1	IC 256K-BIT SRAM 100-NS CMOS	28480	1818-4218
U43	1818-4218	6	1	IC 256K-BIT SRAM 100-NS CMOS	28480	1818-4218
U44 - U45				NOT ASSIGNED		
U46	70425-86001	7	1		28480	70425-86001
U47	70425-86002	8	1		28480	70425-86002
U48 - U49				NOT ASSIGNED		
U50	1820-4279	4	1	IC FF TTL/ALS D-TYPE POS-EDGE-TRIG CLEAR	28480	1820-4279
U51	1820-4790	4	1	IC TRANSCEIVER TTL/ALS BUS OCTL	28480	1820-4790
U52 - U59				NOT ASSIGNED		
U60	1820-6175	3	1	IC-INTERFACE XCVR BIPOLAR BUS OCTL	28480	1820-6175
U61	1820-6176	4	1	IC-INTERFACE XCVR BIPOLAR BUS OCTL	28480	1820-6176
U62	1820-6974	0	1	IC-GPIB CONTROLLER IEEE-488 1975/78	01698	TMS9914AFNL
U63 - U69				NOT ASSIGNED		
U70	1820-6699	6	1	IC-MULTI-FUNCTION PERIPHERAL 52-PLCC	28480	1820-6699
U71	1813-0704	7	1	CLK-OSC-XTAL STD 2.4576-MHZ 0.01%	07919	
U72	1820-4247	6	1	IC GATE TTL/ALS OR QUAD 2-INP	28480	1820-4247
U73 - U89				NOT ASSIGNED		
U90	1820-8897	0	1	IC TRANSCEIVER BICMOS/ABT BUS 9-BIT	28480	1820-8897
U91	1820-3010	9	1	IC-ASIC GT-ARY 2.01K GATES CMOS 5220	10407	LSI5220
U92 - U99				NOT ASSIGNED		
U100	70425-85005	9	1		28480	70425-85005
U101 - U109				NOT ASSIGNED		
U110	1820-4788	0	1	IC DRVR TTL/ALS BUS OCTL	28480	1820-4788
U111	1820-4788	0	1	IC DRVR TTL/ALS BUS OCTL	28480	1820-4788
U112	1820-4278	3	1	IC FF TTL/ALS D-TYPE POS-EDGE-TRIG COM	28480	1820-4278
U113	1820-4278	3	1	IC FF TTL/ALS D-TYPE POS-EDGE-TRIG COM	28480	1820-4278
U114				NOT ASSIGNED		
U115	1820-4215	8	1	IC DCDR CMOS/HC BIN 3-TO-8-LINE	28480	1820-4215
U116	1820-4250	1	1	IC INV TTL/ALS HEX	28480	1820-4250
U117	1820-4279	4	1	IC FF TTL/ALS D-TYPE POS-EDGE-TRIG CLEAR	28480	1820-4279
U118	1820-4215	8	1	IC DCDR CMOS/HC BIN 3-TO-8-LINE	28480	1820-4215
U119	1820-4215	8	1	IC DCDR CMOS/HC BIN 3-TO-8-LINE	28480	1820-4215
U120	1820-4215	8	1	IC DCDR CMOS/HC BIN 3-TO-8-LINE	28480	1820-4215
U121	1820-5220	7	1	IC INV CMOS/HC HEX	28480	1820-5220
U122	1820-5220	7	1	IC INV CMOS/HC HEX	28480	1820-5220
U123	1820-5220	7	1	IC INV CMOS/HC HEX	28480	1820-5220
U124	1820-5220	7	1	IC INV CMOS/HC HEX	28480	1820-5220
U125	1820-6412	1	1	IC-INTERFACE DRVR BIPOLAR PERIPHERAL	28480	1820-6412
U126	1820-6412	1	1	IC-INTERFACE DRVR BIPOLAR PERIPHERAL	28480	1820-6412
U127	1820-6412	1	1	IC-INTERFACE DRVR BIPOLAR PERIPHERAL	28480	1820-6412
U128	1820-6412	1	1	IC-INTERFACE DRVR BIPOLAR PERIPHERAL	28480	1820-6412
U129	1820-5220	7	1	IC INV CMOS/HC HEX	28480	1820-5220
U130	1818-4382	5	1	IC 16K-BIT EEPROM 3.5-US CMOS	10572	X24C16P
U131	1820-5220	7	1	IC INV CMOS/HC HEX	28480	1820-5220
U132	1820-6412	1	1	IC-INTERFACE DRVR BIPOLAR PERIPHERAL	28480	1820-6412
U133 - U139				NOT ASSIGNED		
U140	1818-4779	4	1	IC 1M-BIT SRAM 100-NS CMOS	28480	1818-4779
U141	1818-4779	4	1	IC 1M-BIT SRAM 100-NS CMOS	28480	1818-4779
U142 - U145				NOT ASSIGNED		
U146	1818-4737	4	1	IC 4M-BIT UVEPROM 150-NS CMOS	28480	1818-4737
U147	1818-4737	4	1	IC 4M-BIT UVEPROM 150-NS CMOS	28480	1818-4737

†Refer to Section 7 for update information

*Factory Selected Component (Refer to Section 5)

Δ Errata part change

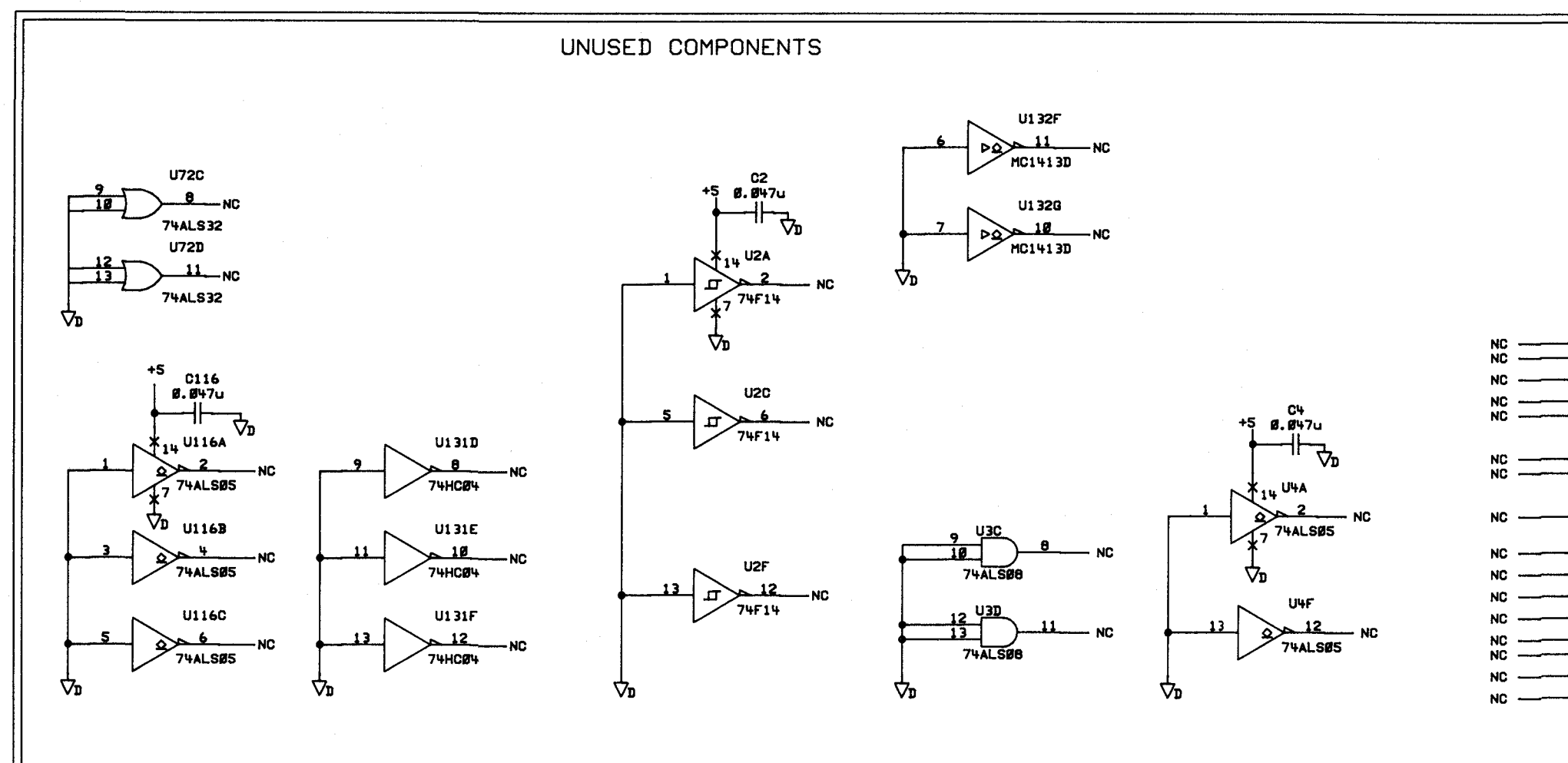
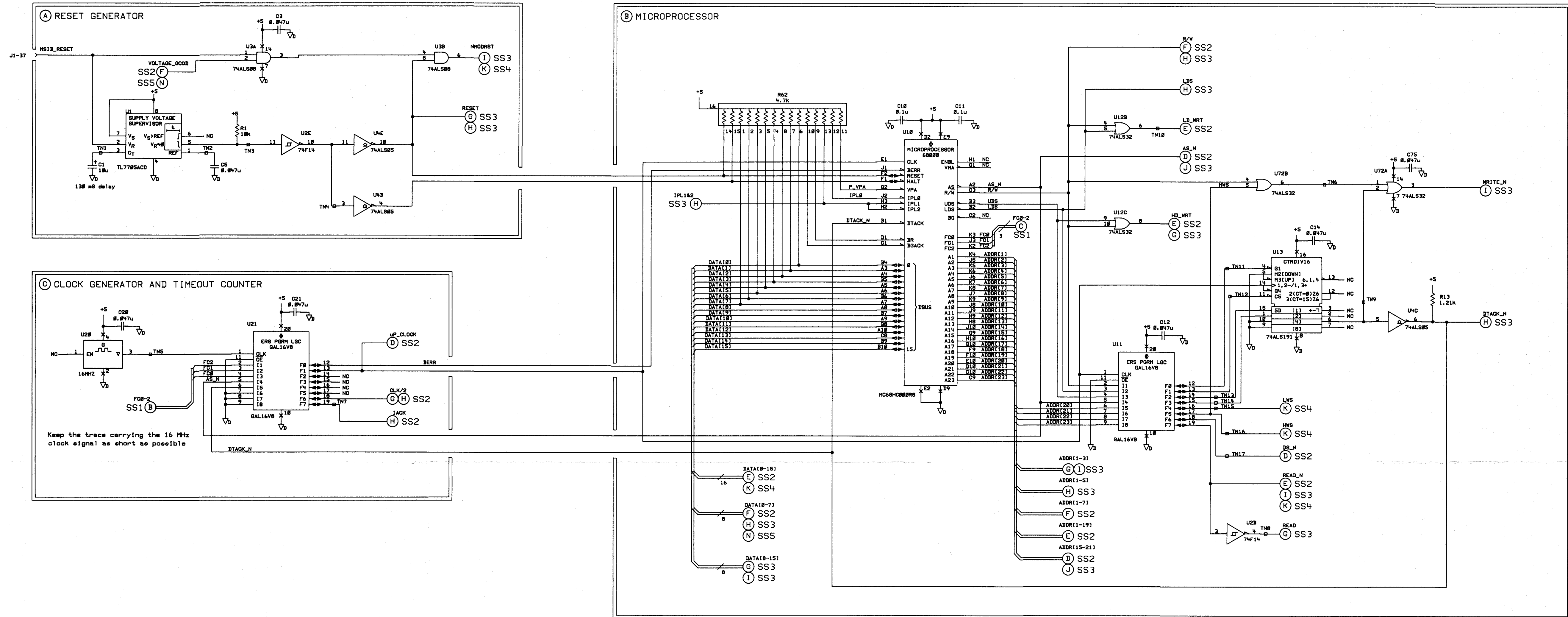
Table 1-1. Replaceable Parts

Reference Designation	HP Part Number	C D	Qty.	Description	Mfr. Code	Mfr. Part Number
VR1	1902-0951	5	1	DIODE-ZNR 5.1V 5% DO-35 PD = .4W TC = +.035%	28480	1902-0951

†Refer to Section 7 for update information

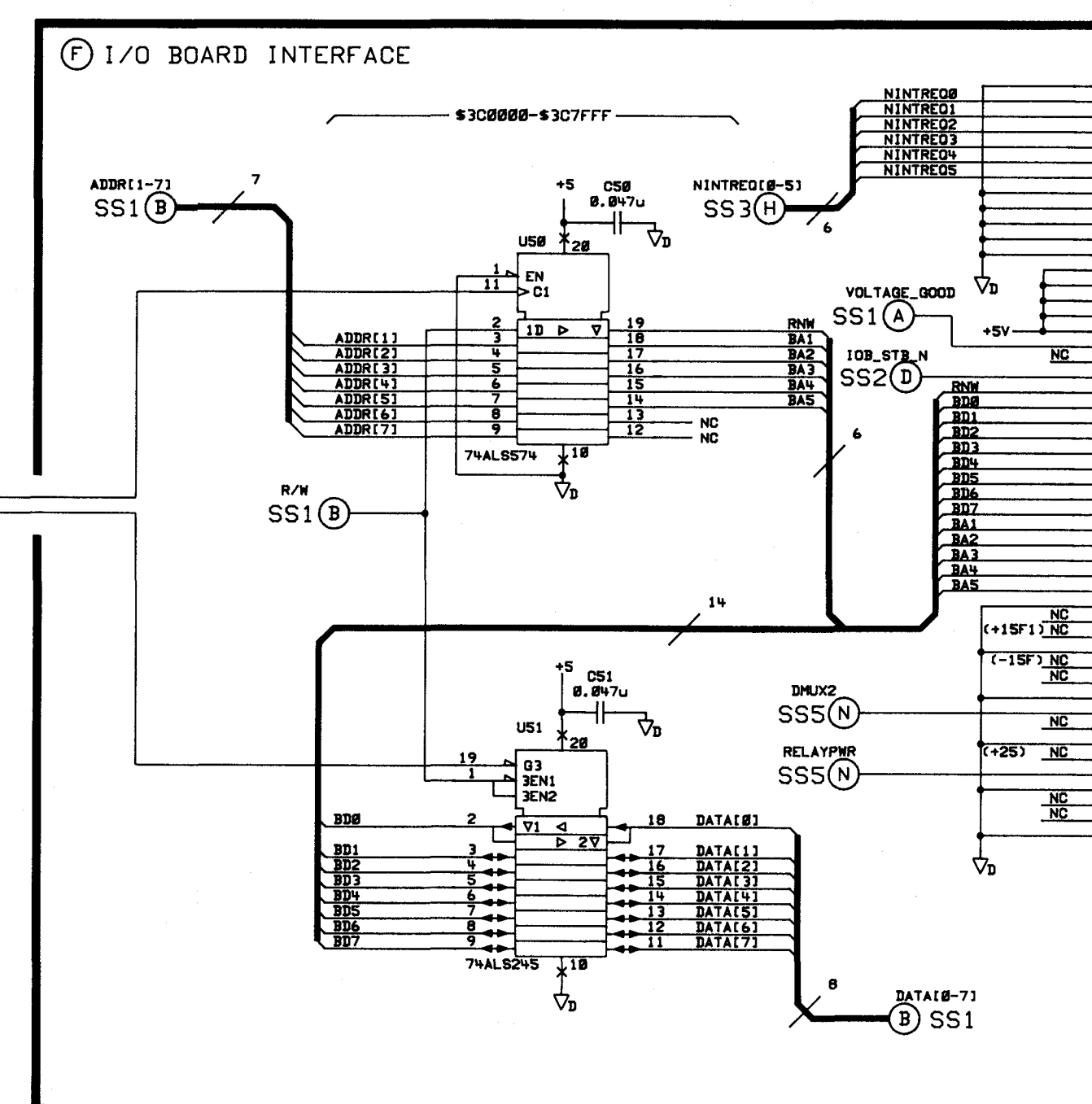
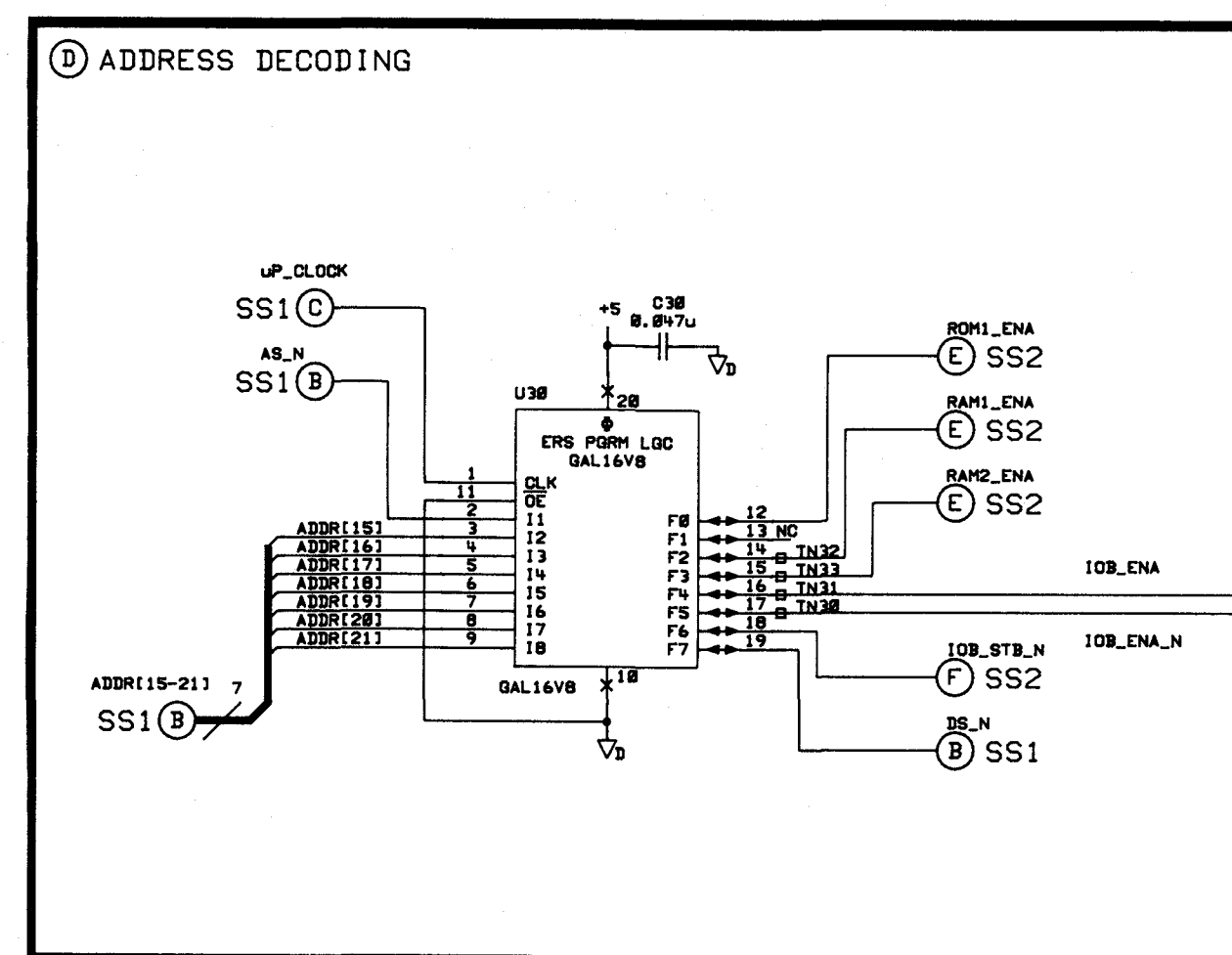
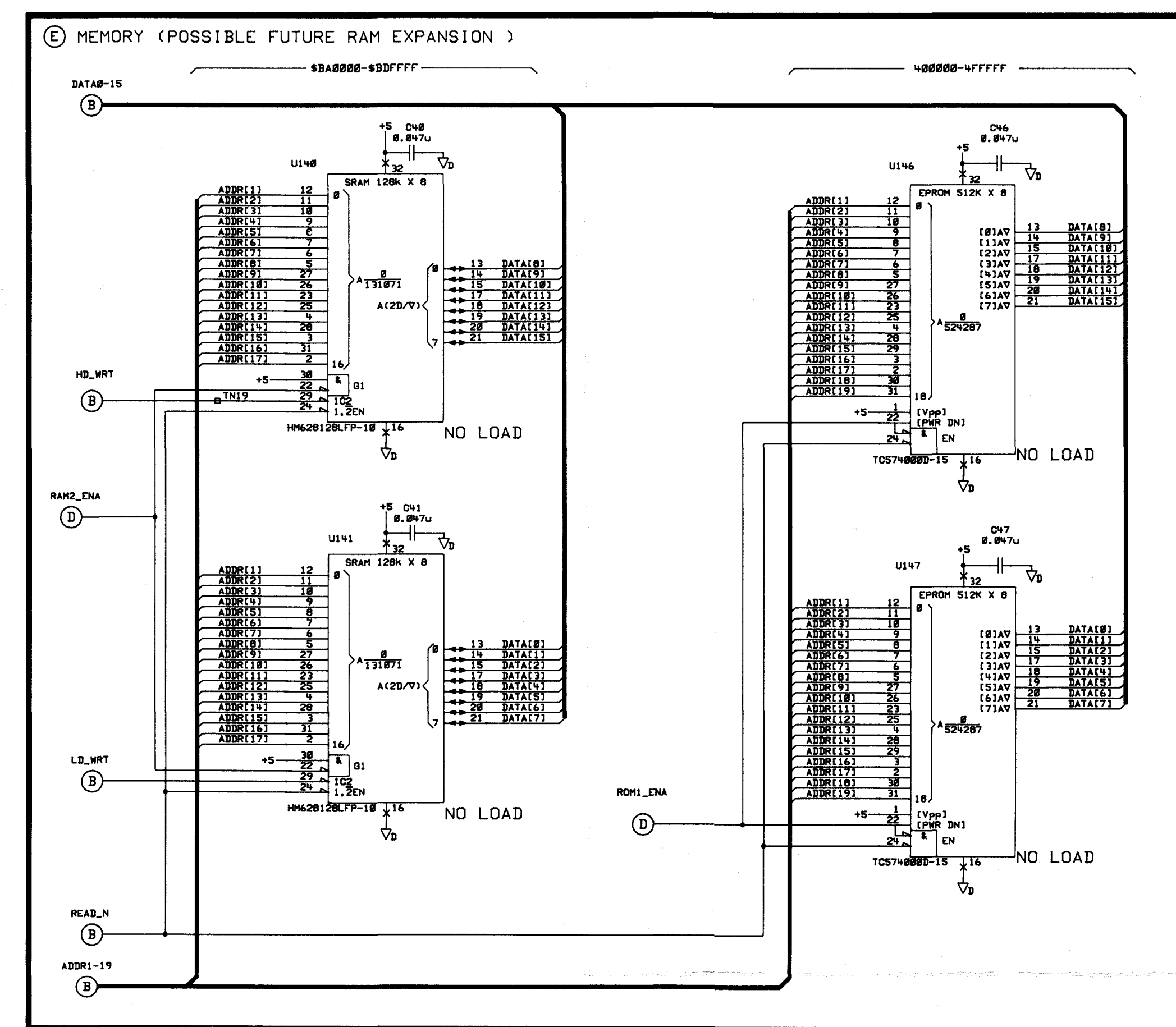
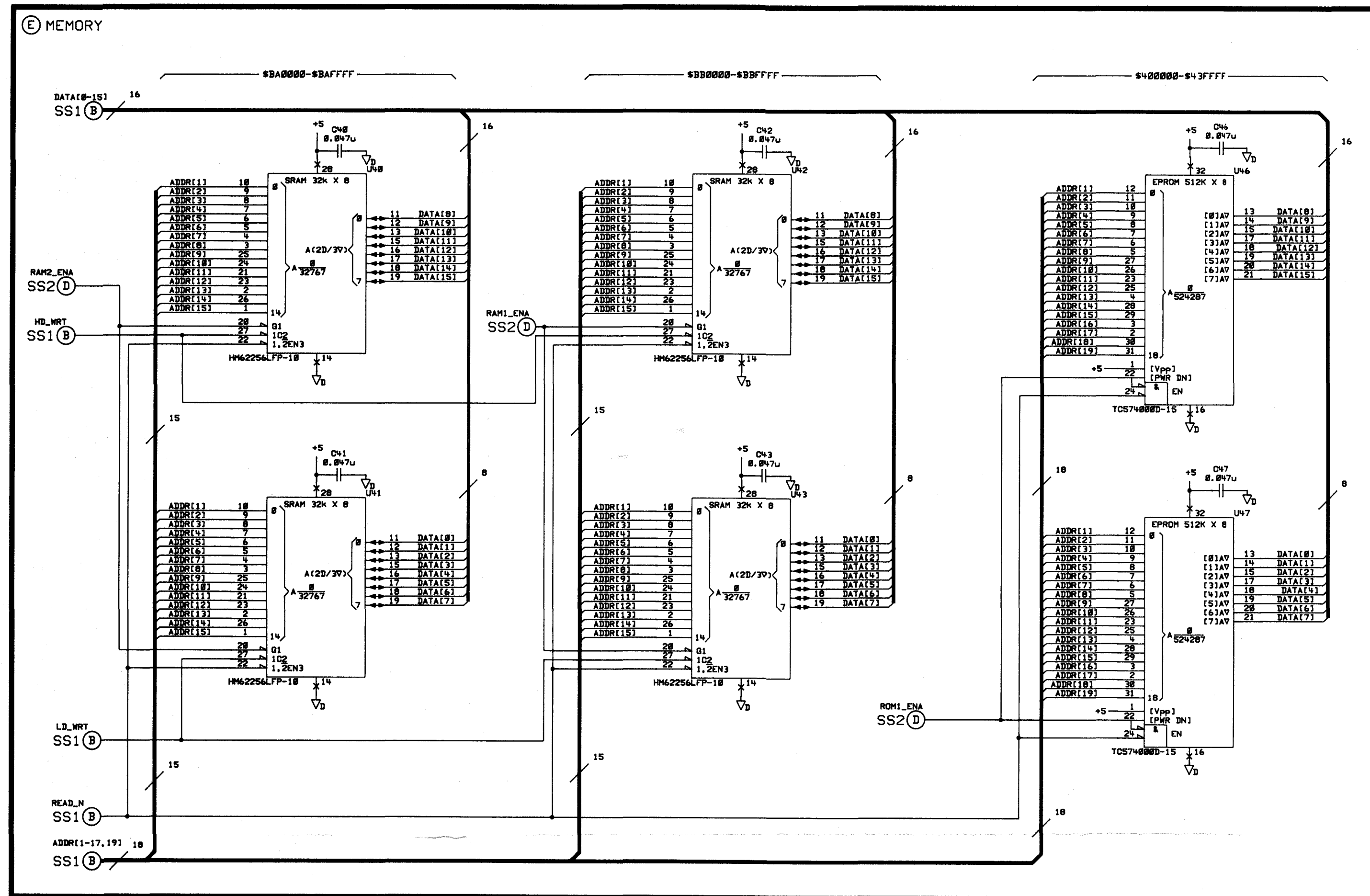
*Factory Selected Component (Refer to Section 5)

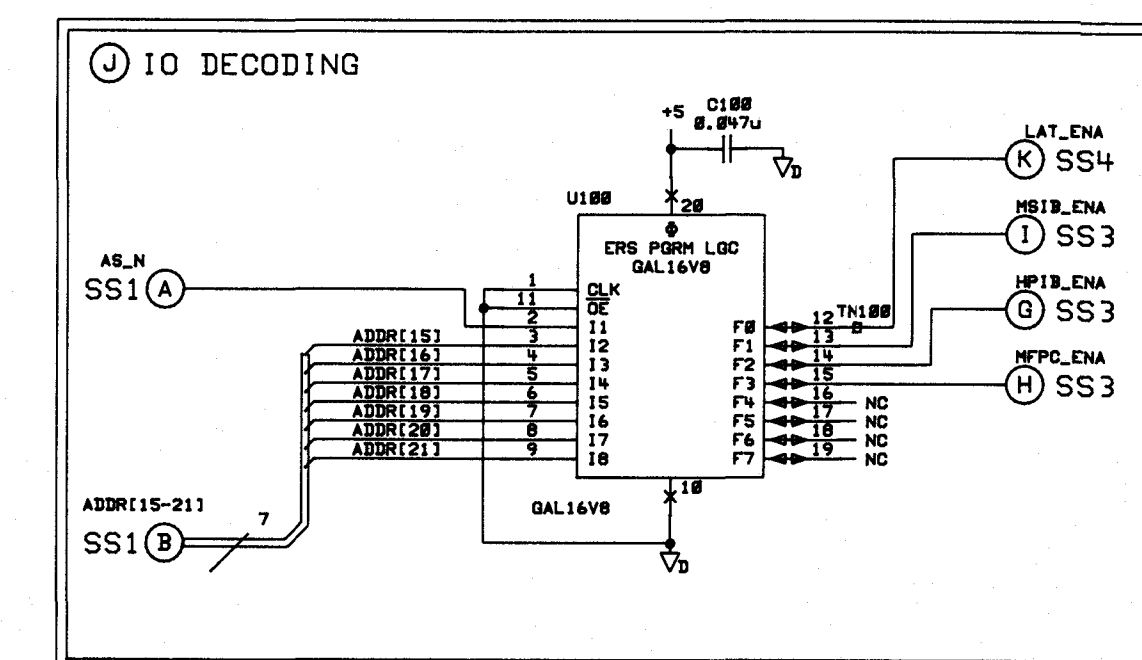
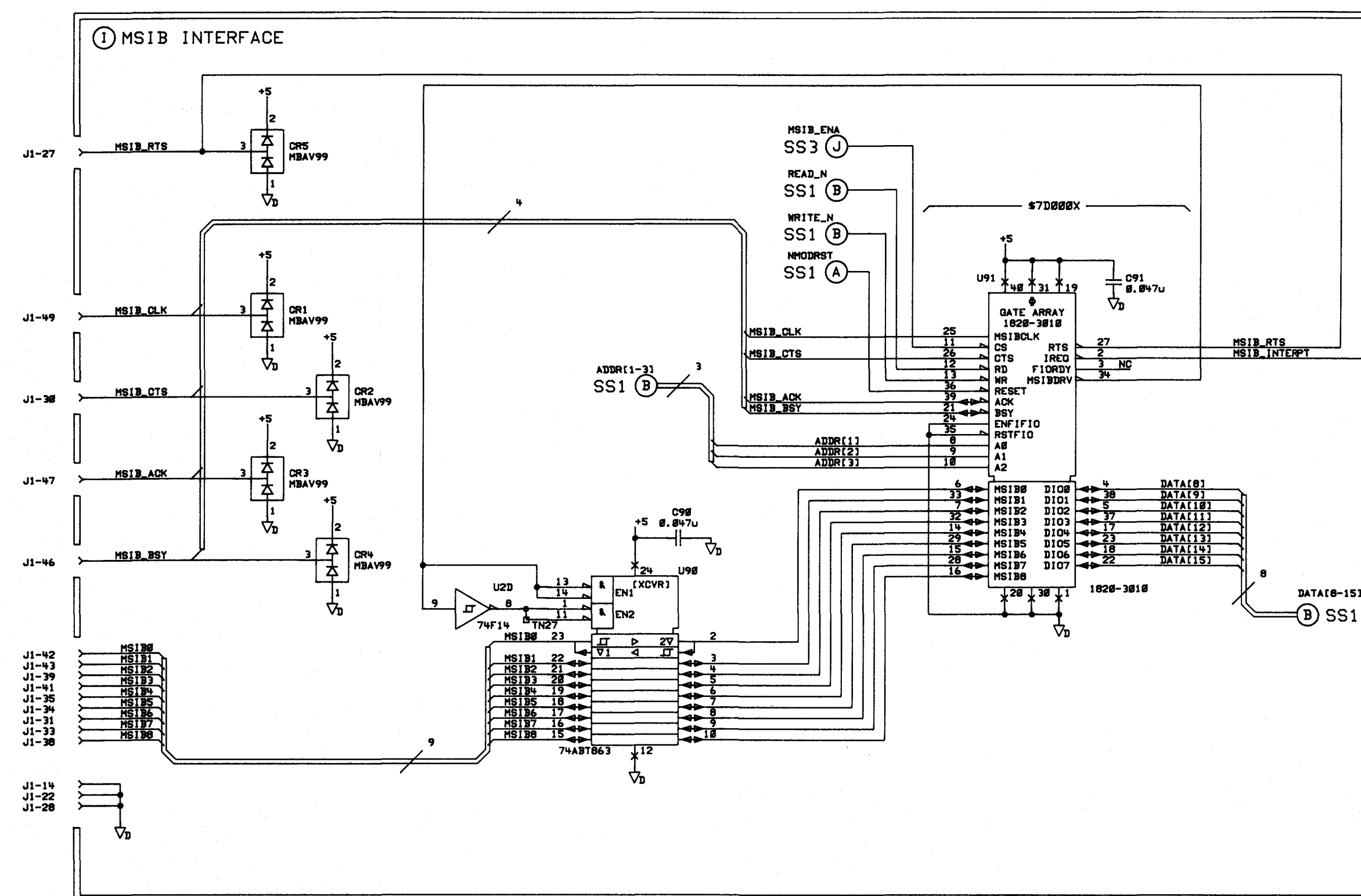
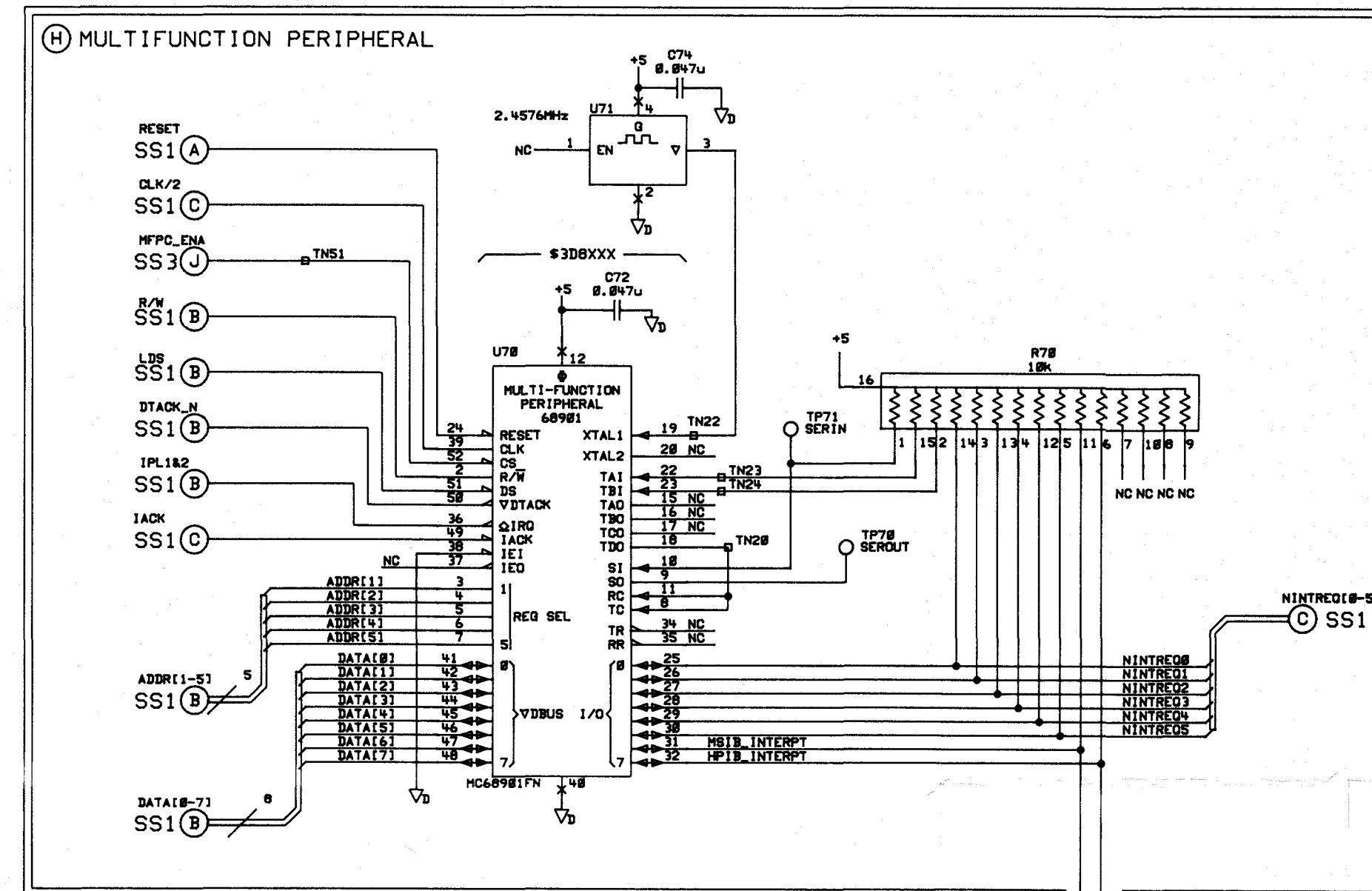
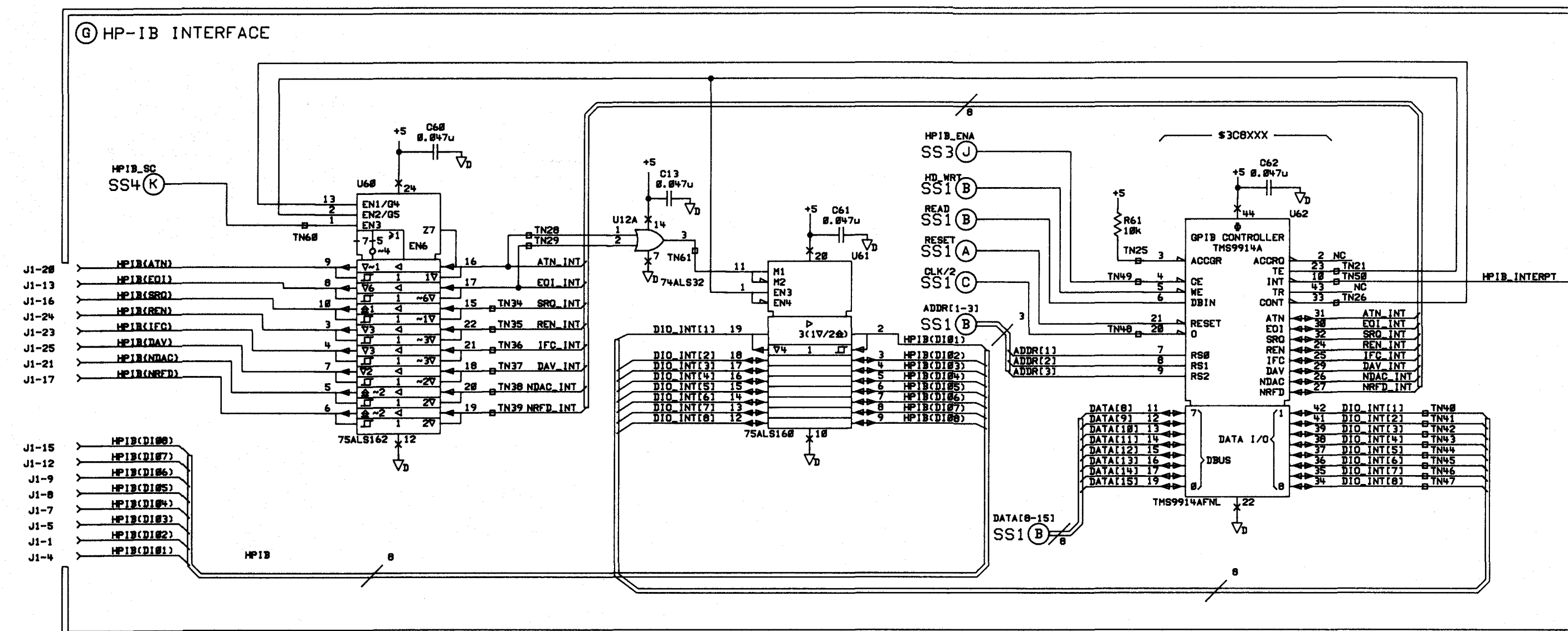
Δ Errata part change.



NO LOAD PARTS			
REF	DES	SHT	BLOCK
U140	2	E	
U141	2	E	
U146	2	E	
U147	2	E	

SS1





SS3

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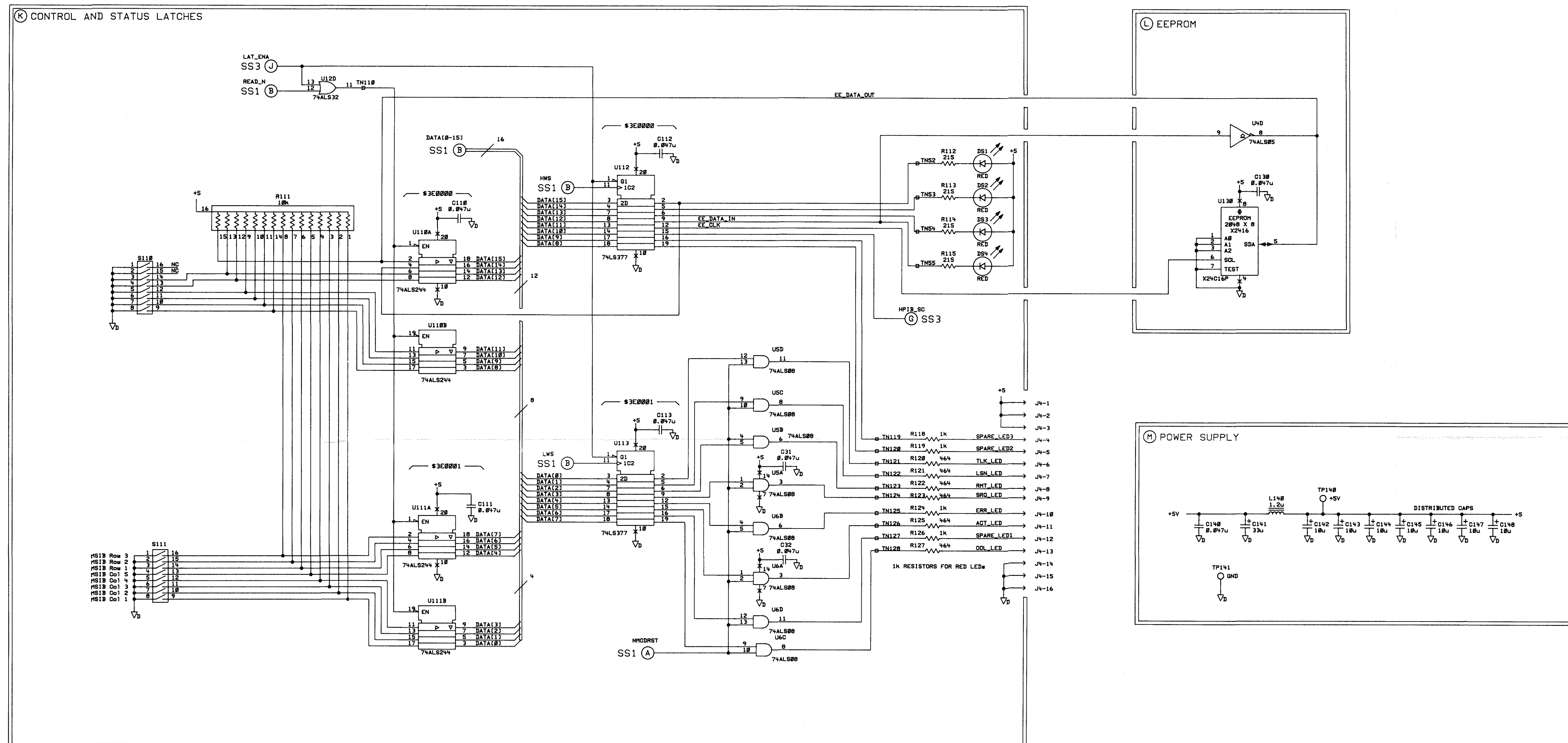
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TITLE


33bby112
FILENAME
SCALE NONE
SHEET 3 OF 5
70425-60112
PART NUMBER
D-70425-60112-1

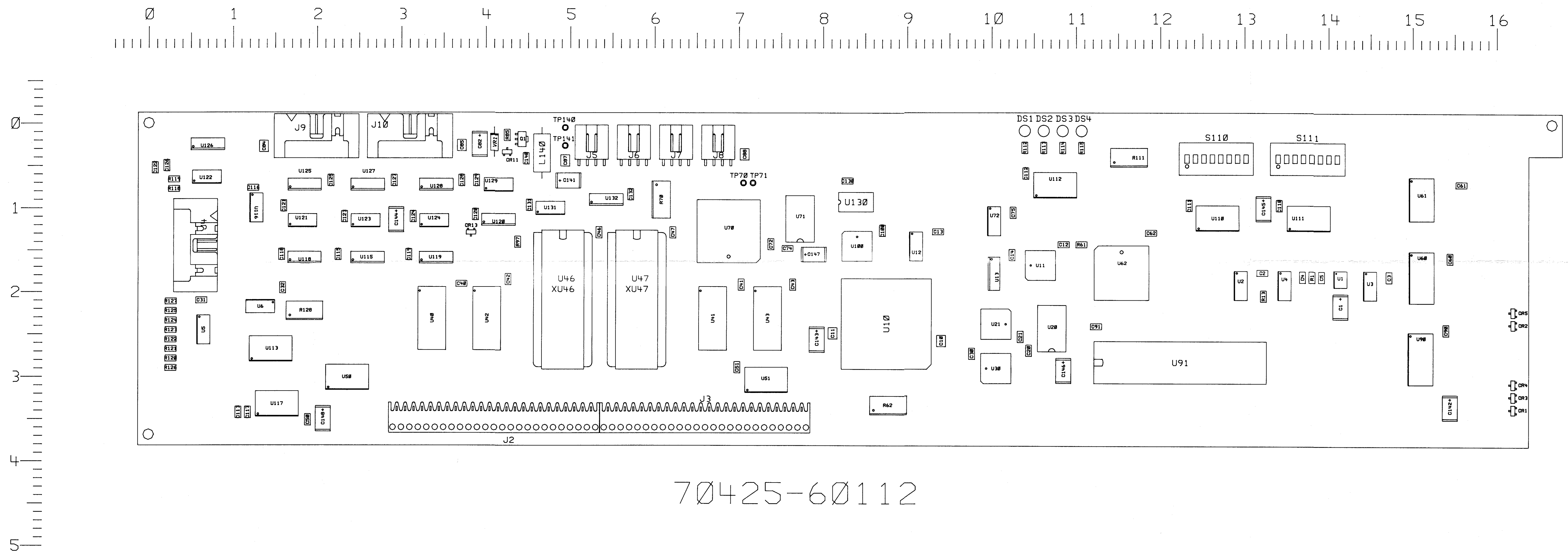


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RELEASE TO PROD.	DATE	PART NUMBER			
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Component-Level Information Packet for 70425-60101

A7A1 100 MHz Loop



**HP Part No. 70425-61808
Printed in USA September 1995**

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Changes to 70425-60101 — September 1995

Page 1-1

Change the Reference Designations from A3 to A7

Page 1-3

Change C72 to 0180-3334

Page 1-4

Add (after DS1) E1 9170-0847 (1) Bead-Shielding

Page 1-5

Change L15 to 9140-1959

Table 1-1. Replaceable Parts

Reference Designation	HP Part Number	C D	Qty.	Description	Mfr. Code	Mfr. Part Number
A3						
A3	70425-60101	4	1	BD AY-100MHz PLL	28480	70425-60101

1Refer to Section 7 for update information.

*Factory Selected Component (Refer to Section 5).

Δ Errata part change

Table 1-1. Replaceable Parts

Reference Designation	HP Part Number	C D	Qty.	Description	Mfr. Code	Mfr. Part Number
A1						
A1	70425-60116	1	1		28480	70425-60116
C2	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C3 - C5				NOT ASSIGNED		
C6	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C7	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C8	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C9				NOT ASSIGNED		
C10	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C11 - C15				NOT ASSIGNED		
C16	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C17 - C28				NOT ASSIGNED		
C29	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C30	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C31	0160-6735	0	1	CAP-FXD 4700pF + -10% 50 V CER X7R	09939	GRM42-602X7R472K050C
C32	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C33	0160-5952	1	1	CAP-FXD 330pF + -5% 50 V CER C0G	09939	GRM40-001C0G331J050C
C34	0160-5952	1	1	CAP-FXD 330pF + -5% 50 V CER C0G	09939	GRM40-001C0G331J050C
C35	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C36	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C37	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C38	0160-6735	0	1	CAP-FXD 4700pF + -10% 50 V CER X7R	09939	GRM42-602X7R472K050C
C39	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C40	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C41	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C42	0160-5975	8	1	CAP-FXD 10pF + -5% 50 V CER C0G	09939	GRM40-001C0G100D050C
C43	0121-0449	9	1	CAP-VAR 10pF 3.5pF 63 V CER	01468	302-504-404
C44	0160-6735	0	1	CAP-FXD 4700pF + -10% 50 V CER X7R	09939	GRM42-602X7R472K050C
C45 - C48				NOT ASSIGNED		
C49	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C50	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C51	0160-7386	9	1	CAP-FXD 160pF + -5% 50 V CER C0G	28480	0160-7386
C52	0160-7386	9	1	CAP-FXD 160pF + -5% 50 V CER C0G	28480	0160-7386
C53	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C54	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C55	0160-5955	4	1	CAP-FXD 68pF + -5% 50 V CER C0G	09939	GRM40-001C0G680J050C
C56	0160-5960	1	1	CAP-FXD 27pF + -5% 50 V CER C0G	09939	GRM40-001C0G270J050C
C57	0121-0449	9	1	CAP-VAR 10pF 3.5pF 63 V CER	01468	302-504-404
C58	0121-0449	9	1	CAP-VAR 10pF 3.5pF 63 V CER	01468	302-504-404
C59	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C60	0160-7377	8	1	CAP-FXD 30pF + -5% 50 V CER C0G	28480	0160-7377
C61	0160-7377	8	1	CAP-FXD 30pF + -5% 50 V CER C0G	28480	0160-7377
C62	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C63	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C64	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C65	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C66	0180-4287	5	1	CAP-FXD 10uF + -20% 35 V TA	28480	0180-4287
C67	0180-4287	5	1	CAP-FXD 10uF + -20% 35 V TA	28480	0180-4287
C68	0180-4287	5	1	CAP-FXD 10uF + -20% 35 V TA	28480	0180-4287
C69	0180-3755	0	1	CAP-FXD 33uF + -20% 10 V TA	00039	NRD336M10R12
C70	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C71	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C

†Refer to Section 7 for update information.

*Factory Selected Component (Refer to Section 5).

Δ Errata part change

Table 1-1. Replaceable Parts

Reference Designation	HP Part Number	C D	Qty.	Description	Mfr. Code	Mfr. Part Number
C72	0180-4302	5	1	CAP-FXD 100uF +20% 50 V AL-ELCTLT	28480	0180-4302
C73 - C99				NOT ASSIGNED		
C100	0160-6096	6	1	CAP-FXD 470pF +5% 50 V CER C0G	09939	GRM42-602C0G471J050C
C101	0160-6096	6	1	CAP-FXD 470pF +5% 50 V CER C0G	09939	GRM42-602C0G471J050C
C102	0160-6102	5	1	CAP-FXD 1500pF +5% 50 V CER C0G	09939	GRM42-6C0G152J050C
C103	0160-5953	2	1	CAP-FXD 270pF +5% 50 V CER C0G	09939	GRM40-001C0G271J050C
C104	0160-6099	9	1	CAP-FXD 820pF +5% 50 V CER C0G	09939	GRM42-6C0G821J050C
C105	0160-6102	5	1	CAP-FXD 1500pF +5% 50 V CER C0G	09939	GRM42-6C0G152J050C
C106	0160-6100	3	1	CAP-FXD 1000pF +5% 50 V CER C0G	09939	GRM42-6C0G102J050C
C107	0160-5965	6	1	CAP-FXD 150pF +5% 50 V CER C0G	09939	GRM40-001C0G151J050C
C108	0160-6100	3	1	CAP-FXD 1000pF +5% 50 V CER C0G	09939	GRM42-6C0G102J050C
C109	0160-6734	9	1	CAP-FXD 0.047uF +10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C110	0160-5971	4	1	CAP-FXD 4.7pF +10.64% 50 V CER C0G	09939	GRM40-001C0G4R7D050C
C111	0160-6734	9	1	CAP-FXD 0.047uF +10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C112	0160-6627	9	1	CAP-FXD 1uF +5% 63 V POLYE-MET	28480	0160-6627
C113	0160-5468	4	1	CAP-FXD 0.47uF +10% 50 V POLYE-MET	11892	MMK5474K50L6
C114	0160-6222	0	1	CAP-FXD 0.1uF +10% 50 V CER X7R	09939	GRM42-2X7R104K050V
C115	0160-6222	0	1	CAP-FXD 0.1uF +10% 50 V CER X7R	09939	GRM42-2X7R104K050V
C116	0160-6734	9	1	CAP-FXD 0.047uF +10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C117	0160-7208	4	1	CAP-FXD 0.015uF +10% 50 V CER X7R	09939	GRM42-6X7R153K50V
C118	0160-7332	5	1	CAP-FXD 6800pF +10% 50 V CER X7R	28480	0160-7332
C119	0160-6103	6	1	CAP-FXD 1800pF +5% 50 V CER C0G	09939	GRM42-6C0G182J50V
C120				NOT ASSIGNED		
C121	0160-6734	9	1	CAP-FXD 0.047uF +10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C122	0160-6734	9	1	CAP-FXD 0.047uF +10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C123	0160-6222	0	1	CAP-FXD 0.1uF +10% 50 V CER X7R	09939	GRM42-2X7R104K050V
C124	0160-6736	1	1	CAP-FXD 0.01uF +10% 50 V CER X7R	09939	GRM42-602X7R103K050C
C125	0160-5951	0	1	CAP-FXD 390pF +5% 50 V CER C0G	09939	GRM40C0G391J050C
C126	0180-4287	5	1	CAP-FXD 10uF +20% 35 V TA	28480	0180-4287
C127	0160-5962	3	1	CAP-FXD 15pF +5% 50 V CER C0G	09939	GRM40-001C0G150J050C
C128	0160-5967	8	1	CAP-FXD 100pF +5% 50 V CER C0G	09939	GRM40-001C0G101J050C
C129	0160-5974	7	1	CAP-FXD 8.2pF +6.1% 50 V CER C0G	09939	GRM40-001C0G8R2D050C
C130	0121-0445	5	1	CAP-VAR 20pF 4.5pF 160 V CER	01468	300-427-502
C131	0160-4491	1	1	CAP-FXD 8.2pF +6.1% 200 V CER C0G	09939	RPE121-105C0G8R2D200V
C132	0160-6734	9	1	CAP-FXD 0.047uF +10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C133	0160-6734	9	1	CAP-FXD 0.047uF +10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C134				NOT ASSIGNED		
C135	0160-6734	9	1	CAP-FXD 0.047uF +10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C136 - C137				NOT ASSIGNED		
C138	0160-6734	9	1	CAP-FXD 0.047uF +10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C139	0160-6734	9	1	CAP-FXD 0.047uF +10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C140	0160-6736	1	1	CAP-FXD 0.01uF +10% 50 V CER X7R	09939	GRM42-602X7R103K050C
C141				NOT ASSIGNED		
C142	0160-6734	9	1	CAP-FXD 0.047uF +10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C143	0160-6734	9	1	CAP-FXD 0.047uF +10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C144	0160-5960	1	1	CAP-FXD 27pF +5% 50 V CER C0G	09939	GRM40-001C0G270J050C
C145	0160-5955	4	1	CAP-FXD 68pF +5% 50 V CER C0G	09939	GRM40-001C0G680J050C
C146	0160-6736	1	1	CAP-FXD 0.01uF +10% 50 V CER X7R	09939	GRM42-602X7R103K050C
C147	0160-6736	1	1	CAP-FXD 0.01uF +10% 50 V CER X7R	09939	GRM42-602X7R103K050C
C148	0160-6736	1	1	CAP-FXD 0.01uF +10% 50 V CER X7R	09939	GRM42-602X7R103K050C
C149	0160-5951	0	1	CAP-FXD 390pF +5% 50 V CER C0G	09939	GRM40C0G391J050C
C150	0160-5960	1	1	CAP-FXD 27pF +5% 50 V CER C0G	09939	GRM40-001C0G270J050C
C151	0160-5955	4	1	CAP-FXD 68pF +5% 50 V CER C0G	09939	GRM40-001C0G680J050C
C152	0160-6736	1	1	CAP-FXD 0.01uF +10% 50 V CER X7R	09939	GRM42-602X7R103K050C
C153	0160-6736	1	1	CAP-FXD 0.01uF +10% 50 V CER X7R	09939	GRM42-602X7R103K050C

†Refer to Section 7 for update information.

*Factory Selected Component (Refer to Section 5)

Δ Errata part change

Table 1-1. Replaceable Parts

Reference Designation	HP Part Number	C D	Qty.	Description	Mfr. Code	Mfr. Part Number
C154	0160-6736	1	1	CAP-FXD 0.01uF + -10% 50 V CER X7R	09939	GRM42-602X7R103K050C
C155	0160-5951	0	1	CAP-FXD 390pF + -5% 50 V CER C0G	09939	GRM40C0G391J050C
C156	0160-5960	1	1	CAP-FXD 27pF + -5% 50 V CER C0G	09939	GRM40-001C0G270J050C
C157	0160-5955	4	1	CAP-FXD 68pF + -5% 50 V CER C0G	09939	GRM40-001C0G680J050C
C158	0160-6736	1	1	CAP-FXD 0.01uF + -10% 50 V CER X7R	09939	GRM42-602X7R103K050C
C159	0160-6736	1	1	CAP-FXD 0.01uF + -10% 50 V CER X7R	09939	GRM42-602X7R103K050C
C160	0160-6736	1	1	CAP-FXD 0.01uF + -10% 50 V CER X7R	09939	GRM42-602X7R103K050C
C161	0160-5951	0	1	CAP-FXD 390pF + -5% 50 V CER C0G	09939	GRM40C0G391J050C
C162	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C163	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C164	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C165 - C199				NOT ASSIGNED		
C200	0180-4287	5	1	CAP-FXD 10uF + -20% 35 V TA	28480	0180-4287
C201	0160-6736	1	1	CAP-FXD 0.01uF + -10% 50 V CER X7R	09939	GRM42-602X7R103K050C
C202	0160-6736	1	1	CAP-FXD 0.01uF + -10% 50 V CER X7R	09939	GRM42-602X7R103K050C
C203	0160-6736	1	1	CAP-FXD 0.01uF + -10% 50 V CER X7R	09939	GRM42-602X7R103K050C
C204				NOT ASSIGNED		
C205	0160-6222	0	1	CAP-FXD 0.1uF + -10% 50 V CER X7R	09939	GRM42-2X7R104K050V
C206	0160-6222	0	1	CAP-FXD 0.1uF + -10% 50 V CER X7R	09939	GRM42-2X7R104K050V
C207	0160-6222	0	1	CAP-FXD 0.1uF + -10% 50 V CER X7R	09939	GRM42-2X7R104K050V
C208	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C209	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C210 - C214				NOT ASSIGNED		
C215	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C216	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C217	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C218	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C219	0180-4116	9	1	CAP-FXD 22uF + -20% 20 V TA	00039	NRD226M20R12
C220	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C221	0160-5975	8	1	CAP-FXD 10pF + -5% 50 V CER C0G	09939	GRM40-001C0G100D050C
C222	0180-3751	6	1	CAP-FXD 1uF + -20% 35 V TA	00039	NRS105M35F8
C223	0180-4287	5	1	CAP-FXD 10uF + -20% 35 V TA	28480	0180-4287
CR1	1900-0074	9	1	DIODE-SCHOTTKY SM SIG	28480	1900-0074
CR2	1900-0074	9	1	DIODE-SCHOTTKY SM SIG	28480	1900-0074
CR3	1900-0074	9	1	DIODE-SCHOTTKY SM SIG	28480	1900-0074
CR4	1900-0074	9	1	DIODE-SCHOTTKY SM SIG	28480	1900-0074
CR5	1901-1227	8	1	DIODE-SWITCHING 75V 200MA 6NS TO-236	28480	1901-1227
CR6	1901-1227	8	1	DIODE-SWITCHING 75V 200MA 6NS TO-236	28480	1901-1227
CR7 - CR8				NOT ASSIGNED		
CR9	1901-1227	8	1	DIODE-SWITCHING 75V 200MA 6NS TO-236	28480	1901-1227
CR10	1901-1227	8	1	DIODE-SWITCHING 75V 200MA 6NS TO-236	28480	1901-1227
CR11 - CR12				NOT ASSIGNED		
CR13	1901-1227	8	1	DIODE-SWITCHING 75V 200MA 6NS TO-236	28480	1901-1227
CR14	1901-1227	8	1	DIODE-SWITCHING 75V 200MA 6NS TO-236	28480	1901-1227
CR15 - CR99				NOT ASSIGNED		
CR100	0122-0172	7	1	DIODE-VVC 29PF 10% C 3/C25-MIN = 5	28480	0122-0172
DC1	0955-0663	6	1	U-WAVE DIRECTIONAL COUPLER 1 GHZ MAX	02739	TDC-10-2
DC2	0955-0663	6	1	U-WAVE DIRECTIONAL COUPLER 1 GHZ MAX	02739	TDC-10-2
DC3	0955-0663	6	1	U-WAVE DIRECTIONAL COUPLER 1 GHZ MAX	02739	TDC-10-2
DS1	1990-0486	6	1	LED-LAMP LUM-INT = 2MCD IF = 25MA-MAX BVR = 5V	28480	1990-0486
FL1	9135-0214	4	1	FILTER-HIGH PASS PIN STYLE-TERMS	01380	842472-1
FL2	9135-0214	4	1	FILTER-HIGH PASS PIN STYLE-TERMS	01380	842472-1
FL3	9135-0214	4	1	FILTER-HIGH PASS PIN STYLE-TERMS	01380	842472-1
FL4	9135-0214	4	1	FILTER-HIGH PASS PIN STYLE-TERMS	01380	842472-1
FL5	9135-0214	4	1	FILTER-HIGH PASS PIN STYLE-TERMS	01380	842472-1

†Refer to Section 7 for update information.

*Factory Selected Component (Refer to Section 5).

Δ Errata part change

Table 1-1. Replaceable Parts

Reference Designation	HP Part Number	C D	Qty.	Description	Mfr. Code	Mfr. Part Number
FL6	9135-0214	4	1	FILTER-HIGH PASS PIN STYLE-TERMS	01380	842472-1
FL7	9135-0214	4	1	FILTER-HIGH PASS PIN STYLE-TERMS	01380	842472-1
FL8	9135-0214	4	1	FILTER-HIGH PASS PIN STYLE-TERMS	01380	842472-1
FL9	9135-0214	4	1	FILTER-HIGH PASS PIN STYLE-TERMS	01380	842472-1
FL10	9135-0214	4	1	FILTER-HIGH PASS PIN STYLE-TERMS	01380	842472-1
FL11	9135-0214	4	1	FILTER-HIGH PASS PIN STYLE-TERMS	01380	842472-1
J1	1251-8105	6	1	CONN-POST TYPE .100-PIN-SPCG 16-CONT	28480	1251-8105
J2				NOT ASSIGNED		
J3	1252-2045	3	1	CONN-POST TYPE .100-PIN-SPCG 5-CONT	01380	644093-2
J4	1250-1512	3	1	CONNECTOR-RF SMB PLUG PC-W-STDFS 50-OHM	28480	1250-1512
J5	1250-2090	4	1	CONNECTOR-RF SMC PLUG PC-W-STDFS 50-OHM	28480	1250-2090
J6	1250-2090	4	1	CONNECTOR-RF SMC PLUG PC-W-STDFS 50-OHM	28480	1250-2090
J7	1250-1512	3	1	CONNECTOR-RF SMB PLUG PC-W-STDFS 50-OHM	28480	1250-1512
J8	1250-1512	3	1	CONNECTOR-RF SMB PLUG PC-W-STDFS 50-OHM	28480	1250-1512
J9	1250-1512	3	1	CONNECTOR-RF SMB PLUG PC-W-STDFS 50-OHM	28480	1250-1512
J10	1250-1512	3	1	CONNECTOR-RF SMB PLUG PC-W-STDFS 50-OHM	28480	1250-1512
J11	1250-2090	4	1	CONNECTOR-RF SMC PLUG PC-W-STDFS 50-OHM	28480	1250-2090
J12	1250-1512	3	1	CONNECTOR-RF SMB PLUG PC-W-STDFS 50-OHM	28480	1250-1512
K1	0490-1549	3	1	RELAY-REED 1C 250MA 150VDC 5VDC-COIL 3VA	04501	2900-0044
K2	0490-1653	0	1	RELAY 2C 12VDC-COIL 1A 28VDC	02501	432YZ-7486
K3	0490-1549	3	1	RELAY-REED 1C 250MA 150VDC 5VDC-COIL 3VA	04501	2900-0044
L4	9140-1105	5	1	INDUCTOR 1UH + -5% 3.4W-MMX4.8LG-MM Q = 50	28480	9140-1105
L5 - L7				NOT ASSIGNED		
L8	9140-1106	6	1	INDUCTOR 1.5UH + -5% 3.4W-MMX4.8LG-MM	28480	9140-1106
L9	9140-1105	5	1	INDUCTOR 1UH + -5% 3.4W-MMX4.8LG-MM Q = 50	28480	9140-1105
L10	9140-1105	5	1	INDUCTOR 1UH + -5% 3.4W-MMX4.8LG-MM Q = 50	28480	9140-1105
L11	9140-1113	5	1	INDUCTOR 10UH + -5% 3.4W-MMX4.8LG-MM Q = 50	28480	9140-1113
L12	9140-1114	6	1	INDUCTOR 15UH + -5% 3.4W-MMX4.8LG-MM Q = 50	28480	9140-1114
L13				NOT ASSIGNED		
L14	9140-1105	5	1	INDUCTOR 1UH + -5% 3.4W-MMX4.8LG-MM Q = 50	28480	9140-1105
L15	9140-1103	3	1	INDUCTOR 680NH + -5% 2.8W-MMX3.4LG-MM	28480	9140-1103
L16	9140-1105	5	1	INDUCTOR 1UH + -5% 3.4W-MMX4.8LG-MM Q = 50	28480	9140-1105
L17	9140-1104	4	1	INDUCTOR 820NH + -5% 2.8W-MMX3.4LG-MM	28480	9140-1104
L18	9140-1118	0	1	INDUCTOR 56UH + -5% 3.4W-MMX4.8LG-MM Q = 50	28480	9140-1118
L19	9140-1204	5	1	INDUCTOR 68NH + -5% 2.8W-MMX3.4LG-MM Q = 27	03273	SM3-068J
L20	9140-1101	1	1	INDUCTOR 470NH + -5% 2.8W-MMX3.4LG-MM	28480	9140-1101
L21	9140-1427	4	1	INDUCTOR 120NH + -5% 2.8W-MMX3.4LG-MM	28480	9140-1427
L22	9140-1105	5	1	INDUCTOR 1UH + -5% 3.4W-MMX4.8LG-MM Q = 50	28480	9140-1105
L23	9140-1113	5	1	INDUCTOR 10UH + -5% 3.4W-MMX4.8LG-MM Q = 50	28480	9140-1113
L24	9140-1113	5	1	INDUCTOR 10UH + -5% 3.4W-MMX4.8LG-MM Q = 50	28480	9140-1113
L25	9140-1113	5	1	INDUCTOR 10UH + -5% 3.4W-MMX4.8LG-MM Q = 50	28480	9140-1113
L26 - L99				NOT ASSIGNED		
L100	9140-1418	3	1	INDUCTOR 2.7UH + -5% 3.4W-MMX4.8LG-MM	28480	9140-1418
L101	9140-1109	9	1	INDUCTOR 4.7UH + -5% 3.4W-MMX4.8LG-MM	28480	9140-1109
L102	9140-1109	9	1	INDUCTOR 4.7UH + -5% 3.4W-MMX4.8LG-MM	28480	9140-1109
L103	9100-2486	3	1	INDUCTOR RF-CH-MLD 330NH + -5%	03706	23303M-5%
L104	9100-3315	9	1	INDUCTOR RF-CH-MLD 820NH + -5%	03706	28203M-5%
L105				NOT ASSIGNED		
L106	9140-1105	5	1	INDUCTOR 1UH + -5% 3.4W-MMX4.8LG-MM Q = 50	28480	9140-1105
L107	9140-1105	5	1	INDUCTOR 1UH + -5% 3.4W-MMX4.8LG-MM Q = 50	28480	9140-1105
L108	9135-0081	3	1	INDUCTOR RF-CH-MLD 68nH + -5%	02172	010150-056J
L109				NOT ASSIGNED		
L110	9100-3553	7	1	INDUCTOR RF-CH-MLD 3.9UH + -5%	03706	23902M-5%
L111				NOT ASSIGNED		
L112	9140-1427	4	1	INDUCTOR 120NH + -5% 2.8W-MMX3.4LG-MM	28480	9140-1427
L113	9140-1105	5	1	INDUCTOR 1UH + -5% 3.4W-MMX4.8LG-MM Q = 50	28480	9140-1105

†Refer to Section 7 for update information

*Factory Selected Component (Refer to Section 5).

Δ Errata part change

Table 1-1. Replaceable Parts

Reference Designation	HP Part Number	C D	Qty.	Description	Mfr. Code	Mfr. Part Number
L114	9140-1427	4	1	INDUCTOR 120NH + -5% 2.8W-MMX3.4LG-MM	28480	9140-1427
L115	9140-1105	5	1	INDUCTOR 1UH + -5% 3.4W-MMX4.8LG-MM Q = 50	28480	9140-1105
L116	9140-1427	4	1	INDUCTOR 120NH + -5% 2.8W-MMX3.4LG-MM	28480	9140-1427
L117	9140-1105	5	1	INDUCTOR 1UH + -5% 3.4W-MMX4.8LG-MM Q = 50	28480	9140-1105
MP1	70425-20101	0	1		28480	70425-20101
MP2	7121-4611	2	1	LABEL-INFORMATION .15-IN-WD .6-IN-LG	09002	
MP3				NOT ASSIGNED		
MP4	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP5	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP6	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP7	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP8	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP9	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP10	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP11	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP12	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP13	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP14	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP15	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP16	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP17	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP18	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP19	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP20	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP21	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP22	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP23	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP24	1251-3172	7	1	CONNECTOR-SGL CONT SKT .03-IN-BSC-SZ RND	01380	2-331677-9
MP25	1251-3172	7	1	CONNECTOR-SGL CONT SKT .03-IN-BSC-SZ RND	01380	2-331677-9
MP26	1251-3172	7	1	CONNECTOR-SGL CONT SKT .03-IN-BSC-SZ RND	01380	2-331677-9
MP27	1251-3172	7	1	CONNECTOR-SGL CONT SKT .03-IN-BSC-SZ RND	01380	2-331677-9
MP28	1251-3172	7	1	CONNECTOR-SGL CONT SKT .03-IN-BSC-SZ RND	01380	2-331677-9
MP29	1251-3172	7	1	CONNECTOR-SGL CONT SKT .03-IN-BSC-SZ RND	01380	2-331677-9
MP30	1251-3172	7	1	CONNECTOR-SGL CONT SKT .03-IN-BSC-SZ RND	01380	2-331677-9
MP31	1251-3172	7	1	CONNECTOR-SGL CONT SKT .03-IN-BSC-SZ RND	01380	2-331677-9
MP32	1251-5595	2	1	POLARIZING KEY-POST CONN	04726	3518
MP33	1251-5595	2	1	POLARIZING KEY-POST CONN	04726	3518
Q1 - MP2				NOT ASSIGNED		
Q3	1854-1054	8	1	TRANSISTOR NPN SI SOT-89 (TO-243AB)	28480	1854-1054
Q4	1854-1054	8	1	TRANSISTOR NPN SI SOT-89 (TO-243AB)	28480	1854-1054
Q5	1854-1054	8	1	TRANSISTOR NPN SI SOT-89 (TO-243AB)	28480	1854-1054
Q6	1854-1054	8	1	TRANSISTOR NPN SI SOT-89 (TO-243AB)	28480	1854-1054
Q7				NOT ASSIGNED		
Q8	1854-1054	8	1	TRANSISTOR NPN SI SOT-89 (TO-243AB)	28480	1854-1054
Q9	1854-1054	8	1	TRANSISTOR NPN SI SOT-89 (TO-243AB)	28480	1854-1054
Q10	1854-1188	9	1	TRANSISTOR NPN SI SOT-23 (TO-236AB)	28480	1854-1188
Q11	1854-1094	6	1	TRANSISTOR NPN SI SOT-89 (TO-243AB)	28480	1854-1094
Q12 - Q99				NOT ASSIGNED		
Q100	1854-1009	3	1	TRANSISTOR NPN SI PD = 580MW FT = 8GHZ	00039	NE21935
Q101	1854-1032	2	1	TRANSISTOR NPN SI PD = 2.5W	28480	1854-1032
Q102	1854-1054	8	1	TRANSISTOR NPN SI SOT-89 (TO-243AB)	28480	1854-1054
Q103	1854-1054	8	1	TRANSISTOR NPN SI SOT-89 (TO-243AB)	28480	1854-1054

†Refer to Section 7 for update information.

*Factory Selected Component (Refer to Section 5)

Δ Errata part change

Table 1-1. Replaceable Parts

Reference Designation	HP Part Number	C D	Qty.	Description	Mfr. Code	Mfr. Part Number
Q104	1854-1054	8	1	TRANSISTOR NPN SI SOT-89 (TO-243AB)	28480	1854-1054
Q105				NOT ASSIGNED		
Q106	1855-0832	0	1	TRANSISTOR MOSFET P-CHAN E-MODE SI	28480	1855-0832
Q107	1855-0709	0	1	TRANSISTOR MOSFET N-CHAN E-MODE SI	28480	1855-0709
Q108	1853-0568	5	1	TRANSISTOR PNP SI TO-236AA PD = 350MW	28480	1853-0568
Q109	1854-1188	9	1	TRANSISTOR NPN SI SOT-23 (TO-236AB)	28480	1854-1188
Q110	1854-1094	6	1	TRANSISTOR NPN SI SOT-89 (TO-243AB)	28480	1854-1094
R1 - Q20				NOT ASSIGNED		
R21	0699-1391	5	1	RESISTOR 10K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10K OHM
R22 - R32				NOT ASSIGNED		
R33	0699-1430	3	1	RESISTOR 422 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 422 OHM
R34	0699-1344	8	1	RESISTOR 10 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10 OHM
R35 - R36				NOT ASSIGNED		
R37	0699-1351	7	1	RESISTOR 19.6 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 19.6 OHM
R38	0698-3629	4	1	RESISTOR 270 $\pm 5\%$ 2W MO TC = 0 \pm -200	02499	GS-3
R39	0699-1385	7	1	RESISTOR 5.11K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 5.11K OHM
R40	0699-1391	5	1	RESISTOR 10K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10K OHM
R41	0699-1415	4	1	RESISTOR 100 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 100 OHM
R42	0699-1430	3	1	RESISTOR 422 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 422 OHM
R43	0699-1361	9	1	RESISTOR 51.1 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 51.1 OHM
R44	0699-1344	8	1	RESISTOR 10 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10 OHM
R45	0699-1344	8	1	RESISTOR 10 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10 OHM
R46	0699-1420	1	1	RESISTOR 162 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 162 OHM
R47	0699-1361	9	1	RESISTOR 51.1 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 51.1 OHM
R48	0699-1385	7	1	RESISTOR 5.11K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 5.11K OHM
R49	0699-1391	5	1	RESISTOR 10K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10K OHM
R50	0699-1361	9	1	RESISTOR 51.1 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 51.1 OHM
R51	0699-1421	2	1	RESISTOR 178 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 178 OHM
R52	0699-1361	9	1	RESISTOR 51.1 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 51.1 OHM
R53	0699-1361	9	1	RESISTOR 51.1 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 51.1 OHM
R54 - R61				NOT ASSIGNED		
R62	0699-1344	8	1	RESISTOR 10 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10 OHM
R63	0699-1318	6	1	RESISTOR 1K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 1K OHM
R64	0699-1344	8	1	RESISTOR 10 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10 OHM
R65	0698-3629	4	1	RESISTOR 270 $\pm 5\%$ 2W MO TC = 0 \pm -200	02499	GS-3
R66	0699-1385	7	1	RESISTOR 5.11K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 5.11K OHM
R67	0699-1378	8	1	RESISTOR 2.61K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 2.61K OHM
R68	0699-1344	8	1	RESISTOR 10 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10 OHM
R69	0699-1318	6	1	RESISTOR 1K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 1K OHM
R70	0699-1344	8	1	RESISTOR 10 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10 OHM
R71	0699-1352	8	1	RESISTOR 21.5 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 21.5 OHM
R72	0699-1361	9	1	RESISTOR 51.1 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 51.1 OHM
R73				NOT ASSIGNED		
R74	0699-1391	5	1	RESISTOR 10K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10K OHM
R75	0699-1318	6	1	RESISTOR 1K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 1K OHM
R76	0698-3615	8	1	RESISTOR 47 $\pm 5\%$ 2W MO TC = 0 \pm -200	02499	GS-3
R77				NOT ASSIGNED		
R78	0699-1330	2	1	RESISTOR 100K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 100K OHM
R79	0699-1381	3	1	RESISTOR 3.48K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 3.48K OHM
R80	0699-1385	7	1	RESISTOR 5.11K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 5.11K OHM
R81 - R99				NOT ASSIGNED		
R100	0699-1361	9	1	RESISTOR 51.1 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 51.1 OHM
R101	0699-1361	9	1	RESISTOR 51.1 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 51.1 OHM
R102	0699-1438	1	1	RESISTOR 909 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 909 OHM
R103	0699-1415	4	1	RESISTOR 100 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 100 OHM
R104	0699-1458	5	1	RESISTOR 681K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 681K OHM
R105	0699-1400	7	1	RESISTOR 26.1K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 26.1K OHM

†Refer to Section 7 for update information.

*Factory Selected Component (Refer to Section 5).

△ Errata part change

Table 1-1. Replaceable Parts

Reference Designation	HP Part Number	C D	Qty.	Description	Mfr. Code	Mfr. Part Number
R106	0699-1448	3	1	RESISTOR 316K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 316K OHM
R107	0699-1400	7	1	RESISTOR 26.1K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 26.1K OHM
R108	0699-1440	5	1	RESISTOR 121K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 121K OHM
R109	0699-1399	3	1	RESISTOR 23.7K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 23.7K OHM
R110	0699-1406	3	1	RESISTOR 42.2K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 42.2K OHM
R111	0699-1398	2	1	RESISTOR 21.5K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 21.5K OHM
R112	0699-1396	0	1	RESISTOR 17.8K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 17.8K OHM
R113	0699-1398	2	1	RESISTOR 21.5K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 21.5K OHM
R114	0699-1390	4	1	RESISTOR 9.09K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 9.09K OHM
R115	0699-1399	3	1	RESISTOR 23.7K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 23.7K OHM
R116	0699-1382	4	1	RESISTOR 3.83K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 3.83K OHM
R117	0699-1399	3	1	RESISTOR 23.7K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 23.7K OHM
R118	0699-1376	6	1	RESISTOR 2.15K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 2.15K OHM
R119	0699-1404	1	1	RESISTOR 34.8K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 34.8K OHM
R120	0699-1391	5	1	RESISTOR 10K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10K OHM
R121				NOT ASSIGNED		
R122	0699-1361	9	1	RESISTOR 51.1 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 51.1 OHM
R123	0699-1391	5	1	RESISTOR 10K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10K OHM
R124	0699-1385	7	1	RESISTOR 5.11K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 5.11K OHM
R125	0699-1378	8	1	RESISTOR 2.61K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 2.61K OHM
R126	0699-1319	7	1	RESISTOR 12.1K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 12.1K OHM
R127	0699-1391	5	1	RESISTOR 10K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10K OHM
R128	0699-1330	2	1	RESISTOR 100K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 100K OHM
R129	0699-1415	4	1	RESISTOR 100 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 100 OHM
R130	0699-1391	5	1	RESISTOR 10K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10K OHM
R131	0699-1330	2	1	RESISTOR 100K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 100K OHM
R132	0699-1415	4	1	RESISTOR 100 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 100 OHM
R133	0699-1391	5	1	RESISTOR 10K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10K OHM
R134	0699-1785	1	1	RESISTOR 13.3K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 13.3K OHM
R135	0699-1376	6	1	RESISTOR 2.15K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 2.15K OHM
R136	0699-1376	6	1	RESISTOR 2.15K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 2.15K OHM
R137	0699-1785	1	1	RESISTOR 13.3K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 13.3K OHM
R138 - R139				NOT ASSIGNED		
R140	0699-1385	7	1	RESISTOR 5.11K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 5.11K OHM
R141	0699-1398	2	1	RESISTOR 21.5K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 21.5K OHM
R142	0699-1385	7	1	RESISTOR 5.11K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 5.11K OHM
R143	0699-1378	8	1	RESISTOR 2.61K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 2.61K OHM
R144	0699-1318	6	1	RESISTOR 1K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 1K OHM
R145	0699-1327	7	1	RESISTOR 1M $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 1M OHM
R146	0699-1375	5	1	RESISTOR 1.96K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 1.96K OHM
R147	0699-1347	1	1	RESISTOR 13.3 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 13.3 OHM
R148	0699-1429	0	1	RESISTOR 383 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 383 OHM
R149	0699-1385	7	1	RESISTOR 5.11K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 5.11K OHM
R150 - R151				NOT ASSIGNED		
R152	0698-3180	2	1	RESISTOR 68 $\pm 2\%$ 2W MO TC = 0 \pm -200	02499	GS-3
R153	0699-1355	1	1	RESISTOR 28.7 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 28.7 OHM
R154	0699-1355	1	1	RESISTOR 28.7 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 28.7 OHM
R155	0699-1355	1	1	RESISTOR 28.7 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 28.7 OHM
R156	0699-1355	1	1	RESISTOR 28.7 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 28.7 OHM
R157	0699-1436	9	1	RESISTOR 750 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 750 OHM

†Refer to Section 7 for update information.

*Factory Selected Component (Refer to Section 5).

△ Errata part change

Table 1-1. Replaceable Parts

Reference Designation	HP Part Number	C D	Qty.	Description	Mfr. Code	Mfr. Part Number
R158	0699-1436	9	1	RESISTOR 750 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 750 OHM
R159	0699-1419	8	1	RESISTOR 147 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 147 OHM
R160	0699-1419	8	1	RESISTOR 147 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 147 OHM
R161	0699-1419	8	1	RESISTOR 147 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 147 OHM
R162	0699-1361	9	1	RESISTOR 51.1 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 51.1 OHM
R163	0699-1417	6	1	RESISTOR 121 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 121 OHM
R164	0699-1430	3	1	RESISTOR 422 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 422 OHM
R165	0699-1344	8	1	RESISTOR 10 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10 OHM
R166	0699-1430	3	1	RESISTOR 422 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 422 OHM
R167	0699-1421	2	1	RESISTOR 178 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 178 OHM
R168	0699-1356	2	1	RESISTOR 31.6 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 31.6 OHM
R169	0699-1421	2	1	RESISTOR 178 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 178 OHM
R170	0699-1376	6	1	RESISTOR 2.15K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 2.15K OHM
R171	0699-1344	8	1	RESISTOR 10 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10 OHM
R172	0699-1352	8	1	RESISTOR 21.5 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 21.5 OHM
R173	0699-1360	8	1	RESISTOR 46.4 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 46.4 OHM
R174	0699-1378	8	1	RESISTOR 2.61K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 2.61K OHM
R175	0699-1385	7	1	RESISTOR 5.11K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 5.11K OHM
R176	0699-1367	5	1	RESISTOR 90.9 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 90.9 OHM
R177	0699-1365	3	1	RESISTOR 75 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 75.0 OHM
R178	0699-1367	5	1	RESISTOR 90.9 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 90.9 OHM
R179	0699-1376	6	1	RESISTOR 2.15K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 2.15K OHM
R180	0699-1344	8	1	RESISTOR 10 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10 OHM
R181	0699-1352	8	1	RESISTOR 21.5 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 21.5 OHM
R182	0699-1360	8	1	RESISTOR 46.4 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 46.4 OHM
R183	0699-1378	8	1	RESISTOR 2.61K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 2.61K OHM
R184	0699-1385	7	1	RESISTOR 5.11K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 5.11K OHM
R185	0699-1367	5	1	RESISTOR 90.9 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 90.9 OHM
R186	0699-1365	3	1	RESISTOR 75 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 75.0 OHM
R187	0699-1367	5	1	RESISTOR 90.9 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 90.9 OHM
R188	0699-1376	6	1	RESISTOR 2.15K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 2.15K OHM
R189	0699-1344	8	1	RESISTOR 10 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10 OHM
R190	0699-1352	8	1	RESISTOR 21.5 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 21.5 OHM
R191	0699-1360	8	1	RESISTOR 46.4 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 46.4 OHM
R192	0699-1378	8	1	RESISTOR 2.61K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 2.61K OHM
R193	0699-1385	7	1	RESISTOR 5.11K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 5.11K OHM
R194	0699-1348	2	1	RESISTOR 14.7 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 14.7 OHM
R195	0699-1366	4	1	RESISTOR 82.5 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 82.5 OHM
R196	0699-1348	2	1	RESISTOR 14.7 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 14.7 OHM
R197 - R198				NOT ASSIGNED		
R199	0699-1391	5	1	RESISTOR 10K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10K OHM
R200				NOT ASSIGNED		
R201	0699-1405	2	1	RESISTOR 38.3K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 38.3K OHM
R202	0699-1391	5	1	RESISTOR 10K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10K OHM
R203				NOT ASSIGNED		
R204	0699-1394	8	1	RESISTOR 14.7K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 14.7K OHM
R205	0699-1417	6	1	RESISTOR 121 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 121 OHM
R206	0699-1352	8	1	RESISTOR 21.5 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 21.5 OHM
R207	0699-1432	5	1	RESISTOR 511 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 511 OHM
R208	0699-1385	7	1	RESISTOR 5.11K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 5.11K OHM

†Refer to Section 7 for update information

*Factory Selected Component (Refer to Section 5).

Δ Errata part change


Table 1-1. Replaceable Parts

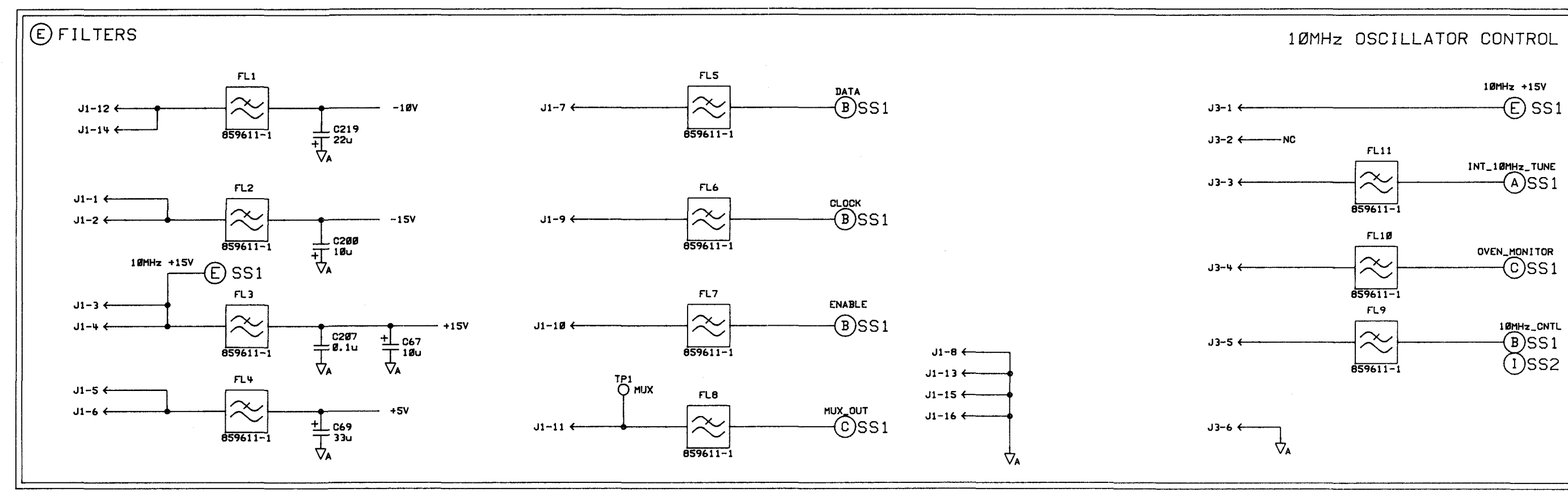
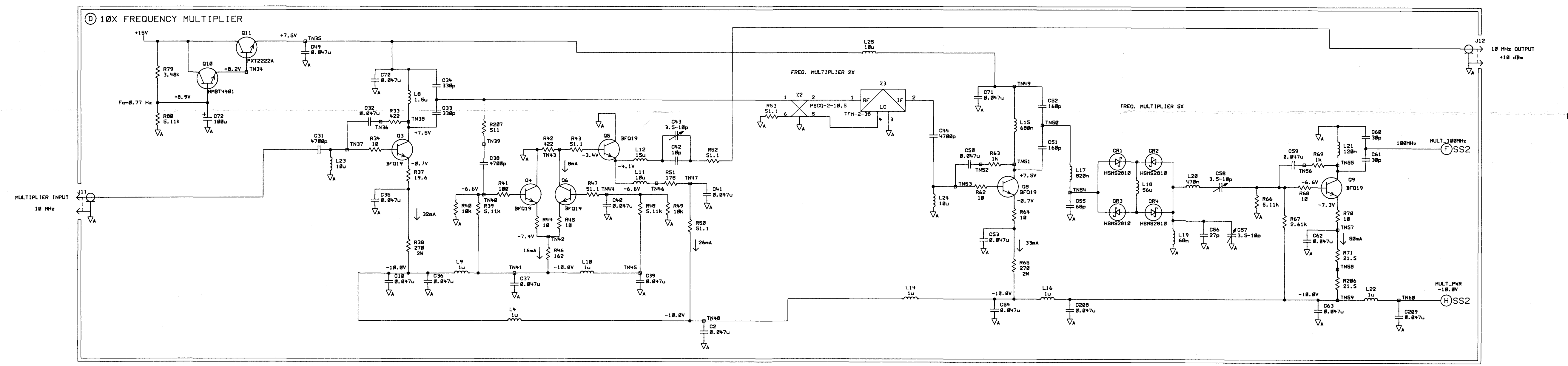
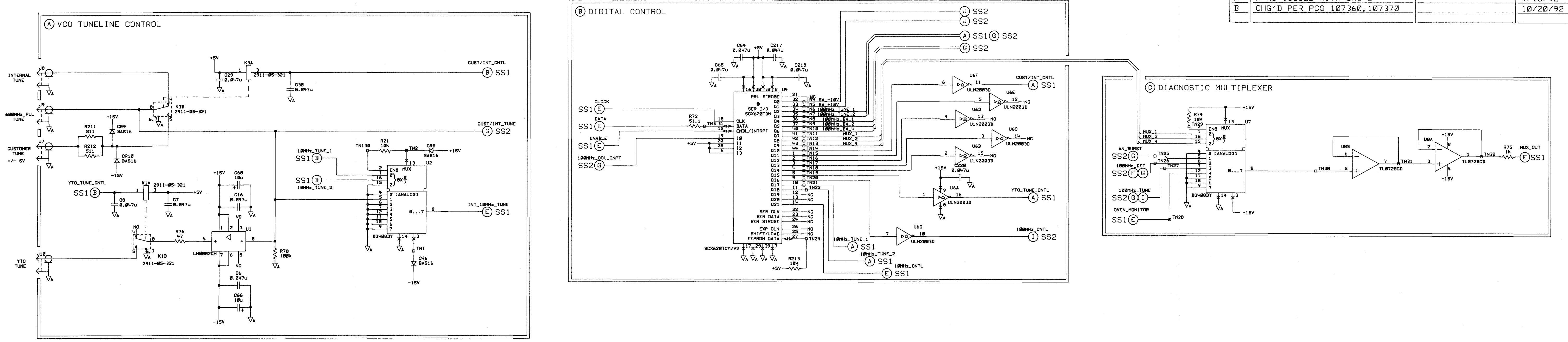
Reference Designation	HP Part Number	C D	Qty.	Description	Mfr. Code	Mfr. Part Number
R209	0699-1391	5	1	RESISTOR 10K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10K OHM
R210	0699-1376	6	1	RESISTOR 2.15K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 2.15K OHM
R211	0699-1432	5	1	RESISTOR 511 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 511 OHM
R212	0699-1432	5	1	RESISTOR 511 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 511 OHM
R213	0699-1391	5	1	RESISTOR 10K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10K OHM
TP1	0360-0535	0	1	CONNECTOR-SGL CONT TML-TS-PT	13296	
U1	1820-0224	1	1	IC OP AMP SPCL 8 PIN TO-99	28480	1820-0224
U2	1826-2147	3	1	ANALOG MULTIPLEXER 8 CHNL 16 -P-SOIC	28480	1826-2147
U3				NOT ASSIGNED		
U4	1820-6752	2	1	IC-ASIC GT-ARY CMOS 6206 PLCC	28480	1820-6752
U5				NOT ASSIGNED		
U6	1858-0104	5	1	IC-INTERFACE DRVR BIPOLAR PERIPHERAL	28480	1858-0104
U7	1826-2147	3	1	ANALOG MULTIPLEXER 8 CHNL 16 -P-SOIC	28480	1826-2147
U8	1826-1644	3	1	IC OP AMP LOW-NOISE DUAL 8 PIN	28480	1826-1644
U9 - U99				NOT ASSIGNED		
U100	1826-1804	7	1	IC OP AMP LOW-NOISE 8 PIN DIP-P	28480	1826-1804
U101	1826-2147	3	1	ANALOG MULTIPLEXER 8 CHNL 16 -P-SOIC	28480	1826-2147
U102	1826-1925	3	1	IC OP AMP LOW-NOISE SINGLE 8 PIN	28480	1826-1925
U103	1826-2147	3	1	ANALOG MULTIPLEXER 8 CHNL 16 -P-SOIC	28480	1826-2147
U104	1826-1602	3	1	IC MISC SINGLE 8 PIN PLSTC-SOIC	28480	1826-1602
U105	1826-1644	3	1	IC OP AMP LOW-NOISE DUAL 8 PIN	28480	1826-1644
U106	1826-2145	1	1	ANALOG SWITCH 4 SPST 16 -P-SOIC	28480	1826-2145
U107	1826-1644	3	1	IC OP AMP LOW-NOISE DUAL 8 PIN	28480	1826-1644
U108	1826-1528	2	1	IC COMPARATOR LP QUAD 14 PIN PLSTC-SOIC	28480	1826-1528
U109	1826-1572	6	1	IC COMPARATOR PRGN DUAL 8 PIN PLSTC-SOIC	28480	1826-1572
Y1	0410-2591	9	1	CRYSTAL-QUARTZ 100.0 MHZ HC-35/U-HLDR	01409	
Z1	0955-0113	1	1	U-WAVE MIXER 1 GHZ MAX	02739	TFM-2-38
Z2	0955-0409	8	1	U-WAVE POWER SPLITTER 11 MHZ MAX	02739	PSCQ-2-10.5
Z3	0955-0113	1	1	U-WAVE MIXER 1 GHZ MAX	02739	TFM-2-38

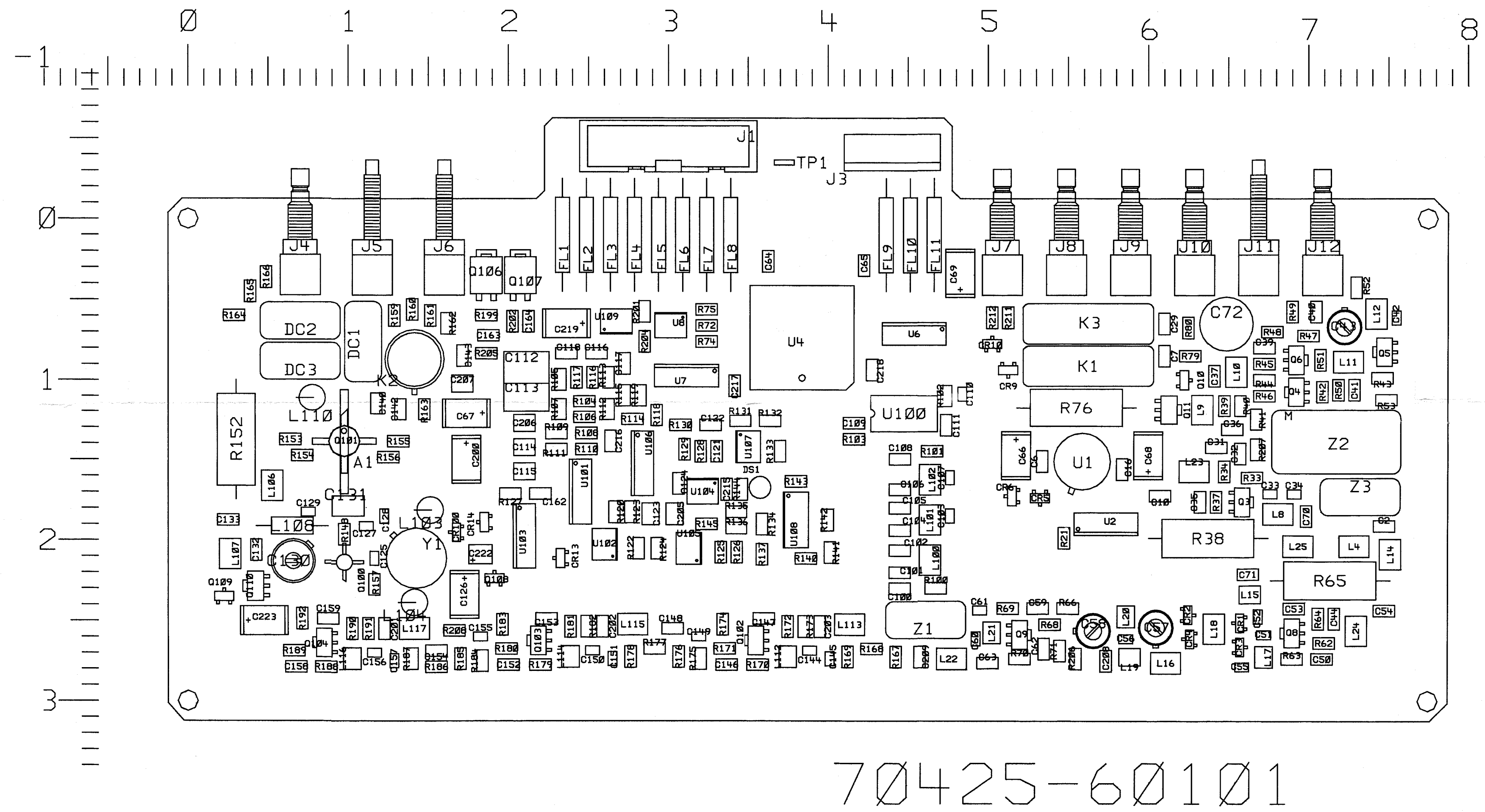
†Refer to Section 7 for update information.

*Factory Selected Component (Refer to Section 5).

Δ Errata part change.

SCHEMATIC, PWA 100 MHz REFERENCE LOOP TITLE	s2bby101	 HEWLETT PACKARD
	FILENAME	
	SCALE NONE	70425-60101
	SHEET 2 of 2	PART NUMBER D-70425-60101-1





Component-Level Information Packet for 70425-60116

A7A1A1 Rainbow 261



**HP Part No. 70425-61808
Printed in USA September 1995**

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Table 1-1. Replaceable Parts

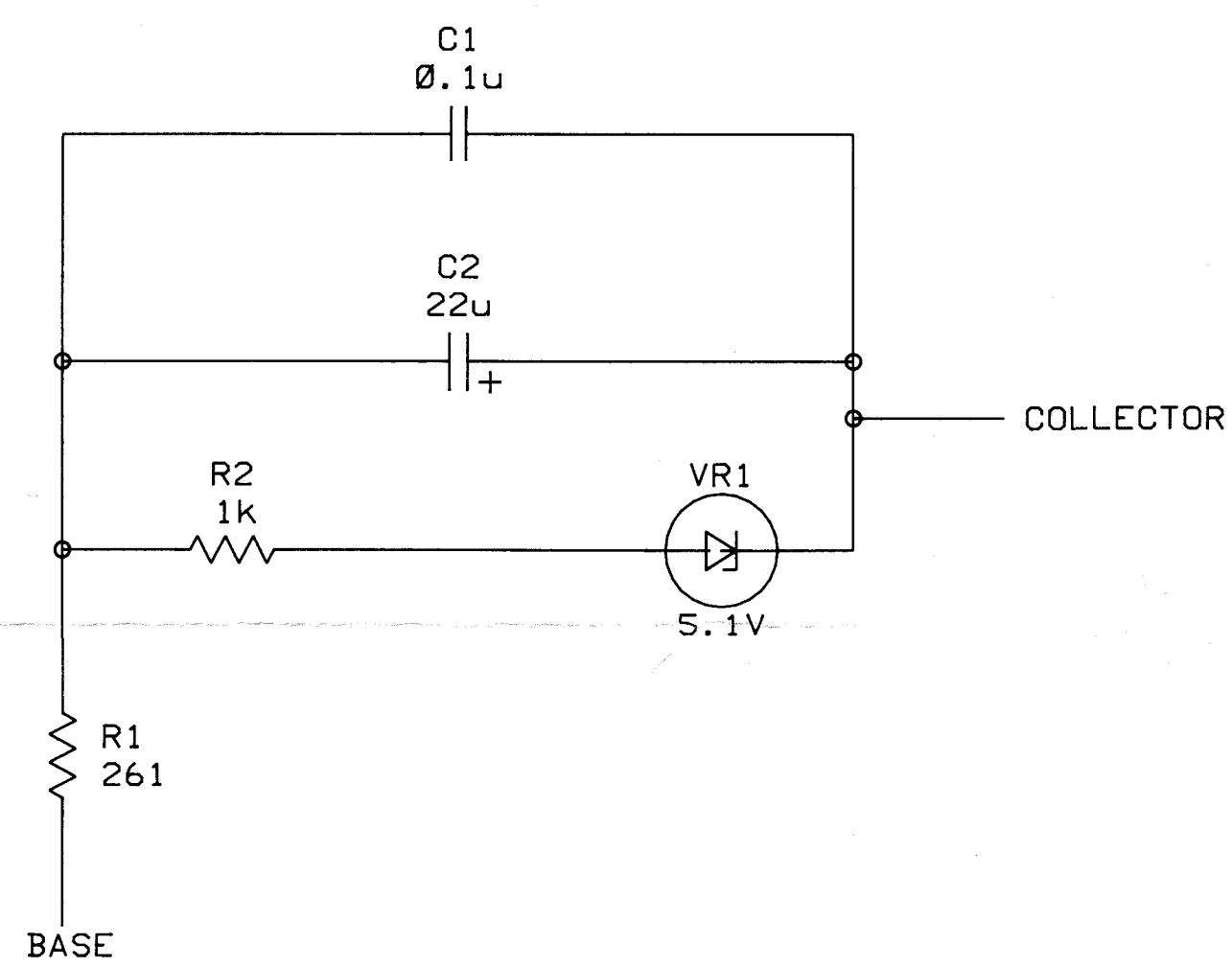
Reference Designation	HP Part Number	C D	Qty.	Description	Mfr. Code	Mfr. Part Number
A7A1A1						
A7A1A1	70425-60116	1	1	BD AY-RAINBOW	28480	70425-60116
C1	0160-6222	0	1	CAP-FXD 0.1uF +-10% 50 V CER X7R	09939	GRM42-2X7R104K050V
C2	0180-4116	9	1	CAP-FXD 22uF +-20% 20 V TA	00039	NRD226M20R12
MP1	70425-20114	5	1		28480	70425-20114
R1	0699-1425	6	1	RESISTOR 261 +-1% .125W TKF TC = 0 +-100	06119	D25 261 OHM
R2	0699-1318	6	1	RESISTOR 1K +-1% .125W TKF TC = 0 +-100	06119	D25 1K OHM
VR1	1902-0951	5	1	DIODE-ZNR 5.1V 5% DO-35 PD = .4W TC = +.035%	28480	1902-0951

†Refer to Section 7 for update information.

*Factory Selected Component (Refer to Section 5)

Δ Errata part change.

A-112191-10		B-70425-60116-1	
SYM	REVISIONS	APPROVED	DATE
A	A AS ISSUED	T.FAULKNER/TR/AB	9/16/92



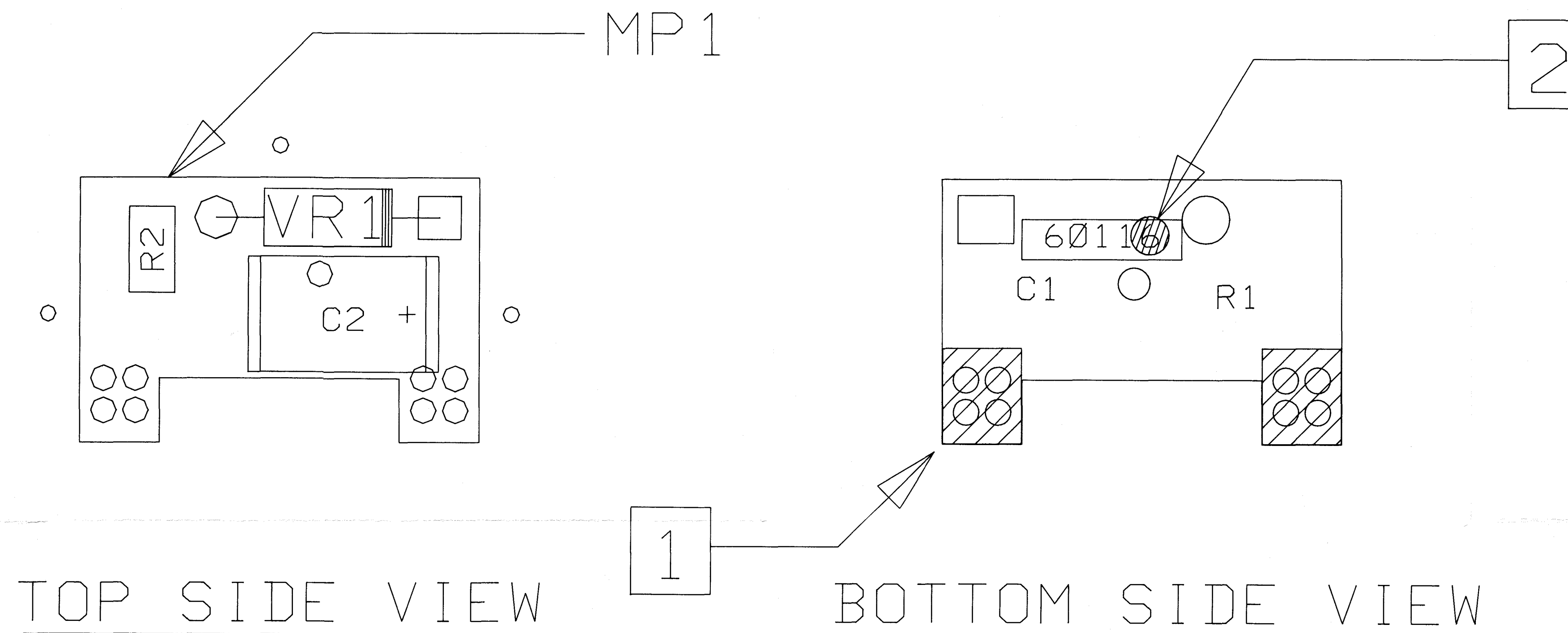
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TERI MACHTMES DRAWN BY	29JAN90 DATE
TOM FAULKNER ENGINEER/CHECKER	29JAN90 DATE
TAMMY RISA RELEASE TO PROD.	9/16/92 DATE
SUPERSEDES DWG.	

SCHEMATIC, PWA
RAINBOW 261 OHM
TITLE

s1bby116 FILENAME	HEWLETT PACKARD
SCALE NONE	
SHEET 1 OF 1	70425-60116 PART NUMBER
B-70425-60116-1	

C-70425-60116-2			
SYM	REVISIONS	APPROVED	DATE
A	A AS ISSUED WITH CHG'S	T. FAULKNER/TR/AD	9/16/92



NOTES:

- 1
- MASK AREAS SHOWN ON BOTTOM SIDE.
- 2
- 70425-60116 USES 70425-60114 BOARD AS ITS RAW BOARD. A BLUE DOT OVER THE LAST DIGIT OF THE ASSEMBLY NUMBER WILL BE USED ON THE 60116 ASSEMBLY.

COMPONENT LOCATER 1

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 XX.XX ±.02
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MARY MARTIN
DRAWN BY
TOM FAULKNER
ENGINEER/CHECKER
RELEASE TO PROD.
SUPERSEDES DWG.

2-7-90
DATE
2-7-90
DATE
9/16/92
DATE

ASSEMBLY, PWB

RAINBOW
261 OHM

TITLE

a1bby116
FILENAME
SCALE NONE
SHEET 1 OF 1



70425-60116
PART NUMBER

C-70425-60116-2

Component-Level Information Packet for 70425-60102

A7A2 600 MHz Loop



**HP Part No. 70425-61808
Printed in USA September 1995**

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Changes to 70425-60102 — September 1995

Page 1-5

Change C120 to 0180-3334

Change C130 to 0180-3334

Table 1-1. Replaceable Parts

Reference Designation	HP Part Number	C D	Qty.	Description	Mfr. Code	Mfr. Part Number
A7A2						
A7A2	70425-60102	5	1	BD AY-600MHz PLL	28480	70425-60102

†Refer to Section 7 for update information.

*Factory Selected Component (Refer to Section 5)

Δ Errata part change

Table 1-1. Replaceable Parts

Reference Designation	HP Part Number	C D	Qty.	Description	Mfr. Code	Mfr. Part Number
A1						
A1	70425-60115	0	1		28480	70425-60115

†Refer to Section 7 for update information

*Factory Selected Component (Refer to Section 5)

Δ Errata part change

Table 1-1. Replaceable Parts

Reference Designation	HP Part Number	C D	Qty.	Description	Mfr. Code	Mfr. Part Number
A3						
A2				NOT ASSIGNED		
A3	70425-60114	9	1		28480	70425-60114
C1	0160-6099	9	1	CAP-FXD 820pF + -5% 50 V CER C0G	09939	GRM42-6C0G821J050C
C2	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C3	0160-5970	3	1	CAP-FXD 3.9pF + -6.41% 50 V CER C0G	09939	GRM40-001C0G3R9C050C
C4	0160-5962	3	1	CAP-FXD 15pF + -5% 50 V CER C0G	09939	GRM40-001C0G150J050C
C5	0121-0449	9	1	CAP-VAR 10pF 3.5pF 63 V CER	01468	302-504-404
C6	0160-5973	6	1	CAP-FXD 6.8pF + -7.35% 50 V CER C0G	09939	GRM40-001C0G6R8D050C
C7				NOT ASSIGNED		
C8	0121-0447	7	1	CAP-VAR 3pF 1pF 63 V CER	01468	302-504-121
C9	0121-0447	7	1	CAP-VAR 3pF 1pF 63 V CER	01468	302-504-121
C10	0160-5951	0	1	CAP-FXD 390pF + -5% 50 V CER C0G	09939	GRM40C0G391J050C
C11	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C12	0160-5951	0	1	CAP-FXD 390pF + -5% 50 V CER C0G	09939	GRM40C0G391J050C
C13	0160-5951	0	1	CAP-FXD 390pF + -5% 50 V CER C0G	09939	GRM40C0G391J050C
C14	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C15	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C16	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C17	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C18	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C19	0160-6099	9	1	CAP-FXD 820pF + -5% 50 V CER C0G	09939	GRM42-6C0G821J050C
C20	0160-5977	0	1	CAP-FXD 1.2pF + -21% 50 V CER C0G	09939	GRM40-001C0G1R2C050C
C21	0160-5951	0	1	CAP-FXD 390pF + -5% 50 V CER C0G	09939	GRM40C0G391J050C
C22	0160-5951	0	1	CAP-FXD 390pF + -5% 50 V CER C0G	09939	GRM40C0G391J050C
C23	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C24				NOT ASSIGNED		
C25	0121-0448	8	1	CAP-VAR 5pF 2.5pF 63 V CER	01468	302-504-111
C26	0160-5977	0	1	CAP-FXD 1.2pF + -21% 50 V CER C0G	09939	GRM40-001C0G1R2C050C
C27	0160-5951	0	1	CAP-FXD 390pF + -5% 50 V CER C0G	09939	GRM40C0G391J050C
C28	0160-5951	0	1	CAP-FXD 390pF + -5% 50 V CER C0G	09939	GRM40C0G391J050C
C29	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C30				NOT ASSIGNED		
C31	0121-0448	8	1	CAP-VAR 5pF 2.5pF 63 V CER	01468	302-504-111
C32	0160-6099	9	1	CAP-FXD 820pF + -5% 50 V CER C0G	09939	GRM42-6C0G821J050C
C33	0160-5977	0	1	CAP-FXD 1.2pF + -21% 50 V CER C0G	09939	GRM40-001C0G1R2C050C
C34	0160-5951	0	1	CAP-FXD 390pF + -5% 50 V CER C0G	09939	GRM40C0G391J050C
C35	0160-5951	0	1	CAP-FXD 390pF + -5% 50 V CER C0G	09939	GRM40C0G391J050C
C36	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C37				NOT ASSIGNED		
C38	0121-0448	8	1	CAP-VAR 5pF 2.5pF 63 V CER	01468	302-504-111
C39	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C40	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C41	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C42	0160-5967	8	1	CAP-FXD 100pF + -5% 50 V CER C0G	09939	GRM40-001C0G101J050C
C43				NOT ASSIGNED		
C44	0160-5967	8	1	CAP-FXD 100pF + -5% 50 V CER C0G	09939	GRM40-001C0G101J050C
C45				NOT ASSIGNED		
C46	0160-6096	6	1	CAP-FXD 470pF + -5% 50 V CER C0G	09939	GRM42-602C0G471J050C
C47	0160-6096	6	1	CAP-FXD 470pF + -5% 50 V CER C0G	09939	GRM42-602C0G471J050C
C48	0160-6102	5	1	CAP-FXD 1500pF + -5% 50 V CER C0G	09939	GRM42-6C0G152J050C
C49	0160-6099	9	1	CAP-FXD 820pF + -5% 50 V CER C0G	09939	GRM42-6C0G821J050C
C50	0160-6216	2	1	CAP-FXD 1000pF + -5% 50 V CER C0G	09939	GRM42-2C0G102J050C

†Refer to Section 7 for update information

*Factory Selected Component (Refer to Section 5)

Δ Errata part change

Table 1-1. Replaceable Parts

Reference Designation	HP Part Number	C D	Qty.	Description	Mfr. Code	Mfr. Part Number
C51	0160-6102	5	1	CAP-FXD 1500pF +.5% 50 V CER C0G	09939	GRM42-6C0G152J050C
C52	0160-5961	2	1	CAP-FXD 22pF +.5% 50 V CER C0G	09939	GRM40-001C0G220J050C
C53	0160-5965	6	1	CAP-FXD 150pF +.5% 50 V CER C0G	09939	GRM40-001C0G151J050C
C54	0160-6216	2	1	CAP-FXD 1000pF +.5% 50 V CER C0G	09939	GRM42-2C0G102J050C
C55	0160-6734	9	1	CAP-FXD 0.047uF +.10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C56	0180-3754	9	1	CAP-FXD 10uF +.20% 25 V TA	00039	NRD106M25P12
C57	0160-5971	4	1	CAP-FXD 4.7pF +.10.64% 50 V CER C0G	09939	GRM40-001C0G4R7D050C
C58	0160-6734	9	1	CAP-FXD 0.047uF +.10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C59	0180-3754	9	1	CAP-FXD 10uF +.20% 25 V TA	00039	NRD106M25P12
C60	0160-5469	5	1	CAP-FXD 1uF +.10% 50 V POLYE-MET	06119	MKT 1826-1UF 10% 63VDC
C61	0160-6734	9	1	CAP-FXD 0.047uF +.10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C62	0180-3754	9	1	CAP-FXD 10uF +.20% 25 V TA	00039	NRD106M25P12
C63	0180-3754	9	1	CAP-FXD 10uF +.20% 25 V TA	00039	NRD106M25P12
C64	0160-6736	1	1	CAP-FXD 0.01uF +.10% 50 V CER X7R	09939	GRM42-602X7R103K050C
C65	0160-6736	1	1	CAP-FXD 0.01uF +.10% 50 V CER X7R	09939	GRM42-602X7R103K050C
C66	0160-6734	9	1	CAP-FXD 0.047uF +.10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C67	0160-6734	9	1	CAP-FXD 0.047uF +.10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C68	0160-5961	2	1	CAP-FXD 22pF +.5% 50 V CER C0G	09939	GRM40-001C0G220J050C
C69	0160-6734	9	1	CAP-FXD 0.047uF +.10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C70	0160-6734	9	1	CAP-FXD 0.047uF +.10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C71	0160-5967	8	1	CAP-FXD 100pF +.5% 50 V CER C0G	09939	GRM40-001C0G101J050C
C72	0160-7333	6	1	CAP-FXD 0.068uF +.10% 50 V CER X7R	28480	0160-7333
C73	0160-6222	0	1	CAP-FXD 0.1uF +.10% 50 V CER X7R	09939	GRM42-2X7R104K050V
C74	0160-5469	5	1	CAP-FXD 1uF +.10% 50 V POLYE-MET	06119	MKT 1826-1UF 10% 63VDC
C75	0160-5469	5	1	CAP-FXD 1uF +.10% 50 V POLYE-MET	06119	MKT 1826-1UF 10% 63VDC
C76	0160-6222	0	1	CAP-FXD 0.1uF +.10% 50 V CER X7R	09939	GRM42-2X7R104K050V
C77				NOT ASSIGNED		
C78	0160-6222	0	1	CAP-FXD 0.1uF +.10% 50 V CER X7R	09939	GRM42-2X7R104K050V
C79				NOT ASSIGNED		
C80	0160-5469	5	1	CAP-FXD 1uF +.10% 50 V POLYE-MET	06119	MKT 1826-1UF 10% 63VDC
C81				NOT ASSIGNED		
C82	0180-3754	9	1	CAP-FXD 10uF +.20% 25 V TA	00039	NRD106M25P12
C83	0180-3754	9	1	CAP-FXD 10uF +.20% 25 V TA	00039	NRD106M25P12
C84				NOT ASSIGNED		
C85	0160-5967	8	1	CAP-FXD 100pF +.5% 50 V CER C0G	09939	GRM40-001C0G101J050C
C86	0160-5967	8	1	CAP-FXD 100pF +.5% 50 V CER C0G	09939	GRM40-001C0G101J050C
C87	0160-5967	8	1	CAP-FXD 100pF +.5% 50 V CER C0G	09939	GRM40-001C0G101J050C
C88	0160-5967	8	1	CAP-FXD 100pF +.5% 50 V CER C0G	09939	GRM40-001C0G101J050C
C89				NOT ASSIGNED		
C90	0121-0448	8	1	CAP-VAR 5pF 2.5pF 63 V CER	01468	302-504-111
C91	0160-6222	0	1	CAP-FXD 0.1uF +.10% 50 V CER X7R	09939	GRM42-2X7R104K050V
C92				NOT ASSIGNED		
C93	0160-6734	9	1	CAP-FXD 0.047uF +.10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C94	0160-5967	8	1	CAP-FXD 100pF +.5% 50 V CER C0G	09939	GRM40-001C0G101J050C
C95	0160-5967	8	1	CAP-FXD 100pF +.5% 50 V CER C0G	09939	GRM40-001C0G101J050C
C96	0160-5967	8	1	CAP-FXD 100pF +.5% 50 V CER C0G	09939	GRM40-001C0G101J050C
C97	0160-5967	8	1	CAP-FXD 100pF +.5% 50 V CER C0G	09939	GRM40-001C0G101J050C
C98	0160-5967	8	1	CAP-FXD 100pF +.5% 50 V CER C0G	09939	GRM40-001C0G101J050C
C99	0160-5967	8	1	CAP-FXD 100pF +.5% 50 V CER C0G	09939	GRM40-001C0G101J050C
C100	0160-6734	9	1	CAP-FXD 0.047uF +.10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C101	0160-5967	8	1	CAP-FXD 100pF +.5% 50 V CER C0G	09939	GRM40-001C0G101J050C
C102				NOT ASSIGNED		
C103	0160-6734	9	1	CAP-FXD 0.047uF +.10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C104	0160-6734	9	1	CAP-FXD 0.047uF +.10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C105	0160-6734	9	1	CAP-FXD 0.047uF +.10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C106				NOT ASSIGNED		
C107	0160-6734	9	1	CAP-FXD 0.047uF +.10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C108				NOT ASSIGNED		
C109	0180-3754	9	1	CAP-FXD 10uF +.20% 25 V TA	00039	NRD106M25P12
C110	0180-3754	9	1	CAP-FXD 10uF +.20% 25 V TA	00039	NRD106M25P12

†Refer to Section 7 for update information.

*Factory Selected Component (Refer to Section 5)

Δ Errata part change

Table 1-1. Replaceable Parts

Reference Designation	HP Part Number	C D	Qty.	Description	Mfr. Code	Mfr. Part Number
C111	0180-3755	0	1	CAP-FXD 33uF +20% 10 V TA	00039	NRD336M10R12
C112	0180-3754	9	1	CAP-FXD 10uF +20% 25 V TA	00039	NRD106M25P12
C113	0160-6099	9	1	CAP-FXD 820pF +5% 50 V CER C0G	09939	GRM42-6C0G821J050C
C114 - C115				NOT ASSIGNED		
C116	0160-6734	9	1	CAP-FXD 0.047uF +10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C117	0160-5967	8	1	CAP-FXD 100pF +5% 50 V CER C0G	09939	GRM40-001C0G101J050C
C118				NOT ASSIGNED		
C119	0160-6731	6	1	CAP-FXD 1000pF +10% 50 V CER X7R	09939	GRM42-602X7R102K050C
C120	0180-4302	5	1	CAP-FXD 100uF +20% 50 V AL-ELCTL	28480	0180-4302
C121	0160-6734	9	1	CAP-FXD 0.047uF +10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C122	0160-6734	9	1	CAP-FXD 0.047uF +10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C123	0160-6734	9	1	CAP-FXD 0.047uF +10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C124	0160-6734	9	1	CAP-FXD 0.047uF +10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C125	0160-6734	9	1	CAP-FXD 0.047uF +10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C126	0160-6734	9	1	CAP-FXD 0.047uF +10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C127 - C128				NOT ASSIGNED		
C129	0160-6734	9	1	CAP-FXD 0.047uF +10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C130	0180-4302	5	1	CAP-FXD 100uF +20% 50 V AL-ELCTL	28480	0180-4302
C131	0160-6734	9	1	CAP-FXD 0.047uF +10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C132	0160-6734	9	1	CAP-FXD 0.047uF +10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C133	0160-6222	0	1	CAP-FXD 0.1uF +10% 50 V CER X7R	09939	GRM42-2X7R104K050V
CR1	1900-0074	9	1	DIODE-SCHOTTKY SM SIG	28480	1900-0074
CR2	1900-0074	9	1	DIODE-SCHOTTKY SM SIG	28480	1900-0074
CR3	1900-0074	9	1	DIODE-SCHOTTKY SM SIG	28480	1900-0074
CR4	1900-0074	9	1	DIODE-SCHOTTKY SM SIG	28480	1900-0074
CR5	1900-0074	9	1	DIODE-SCHOTTKY SM SIG	28480	1900-0074
CR6	1900-0074	9	1	DIODE-SCHOTTKY SM SIG	28480	1900-0074
CR7	0122-0175	0	1	DIODE-VVC 1.8PF 10% C 1/C28-TYP = 9.7	28480	0122-0175
CR8	0122-0175	0	1	DIODE-VVC 1.8PF 10% C 1/C28-TYP = 9.7	28480	0122-0175
CR9	1901-1227	8	1	DIODE-SWITCHING 75V 200MA 6NS TO-236	28480	1901-1227
CR10	1901-1227	8	1	DIODE-SWITCHING 75V 200MA 6NS TO-236	28480	1901-1227
CR11	1901-1227	8	1	DIODE-SWITCHING 75V 200MA 6NS TO-236	28480	1901-1227
CR12	1901-1227	8	1	DIODE-SWITCHING 75V 200MA 6NS TO-236	28480	1901-1227
CR13	1901-1227	8	1	DIODE-SWITCHING 75V 200MA 6NS TO-236	28480	1901-1227
CR14	1901-1227	8	1	DIODE-SWITCHING 75V 200MA 6NS TO-236	28480	1901-1227
DC1	0955-0653	6	1	U-WAVE DIRECTIONAL COUPLER 1 GHZ MAX	02739	TDC-10-2
DC2	0955-0653	6	1	U-WAVE DIRECTIONAL COUPLER 1 GHZ MAX	02739	TDC-10-2
DS1	1990-0486	6	1	LED-LAMP LUM-INT = 2MCD IF = 25MA-MAX BVR = 5V	28480	1990-0486
FL1	9135-0214	4	1	FILTER-HIGH PASS PIN STYLE-TERMS	01380	842472-1
FL2	9135-0214	4	1	FILTER-HIGH PASS PIN STYLE-TERMS	01380	842472-1
FL3	9135-0214	4	1	FILTER-HIGH PASS PIN STYLE-TERMS	01380	842472-1
FL4	9135-0214	4	1	FILTER-HIGH PASS PIN STYLE-TERMS	01380	842472-1
FL5	9135-0214	4	1	FILTER-HIGH PASS PIN STYLE-TERMS	01380	842472-1
FL6	9135-0214	4	1	FILTER-HIGH PASS PIN STYLE-TERMS	01380	842472-1
FL7	9135-0214	4	1	FILTER-HIGH PASS PIN STYLE-TERMS	01380	842472-1
FL8	9135-0214	4	1	FILTER-HIGH PASS PIN STYLE-TERMS	01380	842472-1
FL9	9135-0214	4	1	FILTER-HIGH PASS PIN STYLE-TERMS	01380	842472-1
J1	1251-8105	6	1	CONN-POST TYPE .100-PIN-SPCG 16-CONT	28480	1251-8105
J2	1250-2160	9	1	CONNECTOR-RF SMC PLUG PC-W/O-STDF 50-OHM	28480	1250-2160
J3	1250-2160	9	1	CONNECTOR-RF SMC PLUG PC-W/O-STDF 50-OHM	28480	1250-2160
J4	1250-1512	3	1	CONNECTOR-RF SMB PLUG PC-W-STDFS 50-OHM	28480	1250-1512
J5	1250-2160	9	1	CONNECTOR-RF SMC PLUG PC-W/O-STDF 50-OHM	28480	1250-2160

†Refer to Section 7 for update information

*Factory Selected Component (Refer to Section 5)

Δ Errata part change

Table 1-1. Replaceable Parts

Reference Designation	HP Part Number	C D	Qty.	Description	Mfr. Code	Mfr. Part Number
J6	1250-2160	9	1	CONNECTOR-RF SMC PLUG PC-W/O-STDF 50-OHM	28480	1250-2160
J7	1250-1512	3	1	CONNECTOR-RF SMB PLUG PC-W-STDFS 50-OHM	28480	1250-1512
J8	1250-2160	9	1	CONNECTOR-RF SMC PLUG PC-W/O-STDF 50-OHM	28480	1250-2160
L1	9140-1205	6	1	INDUCTOR 82NH + -5% 2.8W-MMX3.4LG-MM Q = 27	03273	SM3-082J
L2	9140-1537	7	1	INDUCTOR 22NH + -10% 2.8W-MMX3.4LG-MM	03273	SM3-022K
L3	9140-1425	2	1	INDUCTOR 270nH + -5% 2.8W-mmX3.4LG-mm	28480	9140-1425
L4	9140-1105	5	1	INDUCTOR 1UH + -5% 3.4W-MMX4.8LG-MM Q = 50	28480	9140-1105
L5	9140-1557	1	1	INDUCTOR 10NH + 10% -10% 2.8W-MMX3.4LG-MM	03273	SM3-010K
L6	9140-1563	9	1	INDUCTOR 33NH + 5% -5% 2.8W-MMX3.4LG-MM	03273	SM3-033J
L7	9140-1104	4	1	INDUCTOR 820NH + -5% 2.8W-MMX3.4LG-MM	28480	9140-1104
L8	9140-1195	3	1	INDUCTOR 15NH + -10% 2.8W-MMX3.4LG-MM	03273	SM3-015K
L9	9140-1194	2	1	INDUCTOR 10NH + -10% 2.8W-MMX3.4LG-MM	03273	SM3-010K
L10	9140-1203	4	1	INDUCTOR 56NH + -5% 2.8W-MMX3.4LG-MM Q = 26	03273	SM3-056J
L11	9140-1195	3	1	INDUCTOR 15NH + -10% 2.8W-MMX3.4LG-MM	03273	SM3-015K
L12	9140-1194	2	1	INDUCTOR 10NH + -10% 2.8W-MMX3.4LG-MM	03273	SM3-010K
L13	9140-1195	3	1	INDUCTOR 15NH + -10% 2.8W-MMX3.4LG-MM	03273	SM3-015K
L14	9140-1194	2	1	INDUCTOR 10NH + -10% 2.8W-MMX3.4LG-MM	03273	SM3-010K
L15	9140-1203	4	1	INDUCTOR 56NH + -5% 2.8W-MMX3.4LG-MM Q = 26	03273	SM3-056J
L16	9140-1105	5	1	INDUCTOR 1UH + -5% 3.4W-MMX4.8LG-MM Q = 50	28480	9140-1105
L17	9140-1105	5	1	INDUCTOR 1UH + -5% 3.4W-MMX4.8LG-MM Q = 50	28480	9140-1105
L18	9140-1105	5	1	INDUCTOR 1UH + -5% 3.4W-MMX4.8LG-MM Q = 50	28480	9140-1105
L19	9100-3922	4	1	INDUCTOR-FIXED Z > 1200 OHMS 120 TO 650	12313	99ZSPA45165
L20				NOT ASSIGNED		
L21	9140-1418	3	1	INDUCTOR 2.7UH + -5% 3.4W-MMX4.8LG-MM	28480	9140-1418
L22	9140-1109	9	1	INDUCTOR 4.7UH + -5% 3.4W-MMX4.8LG-MM	28480	9140-1109
L23	9140-1109	9	1	INDUCTOR 4.7UH + -5% 3.4W-MMX4.8LG-MM	28480	9140-1109
L24	9100-3922	4	1	INDUCTOR-FIXED Z > 1200 OHMS 120 TO 650	12313	99ZSPA45165
L25	9140-1194	2	1	INDUCTOR 10NH + -10% 2.8W-MMX3.4LG-MM	03273	SM3-010K
L26				NOT ASSIGNED		
L27	9100-3922	4	1	INDUCTOR-FIXED Z > 1200 OHMS 120 TO 650	12313	99ZSPA45165
L28	9100-3922	4	1	INDUCTOR-FIXED Z > 1200 OHMS 120 TO 650	12313	99ZSPA45165
L29	9100-3922	4	1	INDUCTOR-FIXED Z > 1200 OHMS 120 TO 650	12313	99ZSPA45165
L30	9100-3922	4	1	INDUCTOR-FIXED Z > 1200 OHMS 120 TO 650	12313	99ZSPA45165
L31	9140-1105	5	1	INDUCTOR 1UH + -5% 3.4W-MMX4.8LG-MM Q = 50	28480	9140-1105
L32	9140-1203	4	1	INDUCTOR 56NH + -5% 2.8W-MMX3.4LG-MM Q = 26	03273	SM3-056J
L33	9140-1105	5	1	INDUCTOR 1UH + -5% 3.4W-MMX4.8LG-MM Q = 50	28480	9140-1105
L34	9100-3922	4	1	INDUCTOR-FIXED Z > 1200 OHMS 120 TO 650	12313	99ZSPA45165
L35	9100-3922	4	1	INDUCTOR-FIXED Z > 1200 OHMS 120 TO 650	12313	99ZSPA45165
L36	9140-1104	4	1	INDUCTOR 820NH + -5% 2.8W-MMX3.4LG-MM	28480	9140-1104
MP1	70425-20102	1	1		28480	70425-20102
MP2	7121-4611	2	1	LABEL-INFORMATION .15-IN-WD .6-IN-LG	09002	
MP3	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP4	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP5	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP6	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP7	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP8	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP9	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP10	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5

1 Refer to Section 7 for update information.

* Factory Selected Component (Refer to Section 5).

△ Errata part change

Table 1-1. Replaceable Parts

Reference Designation	HP Part Number	C D	Qty.	Description	Mfr. Code	Mfr. Part Number
MP11	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP12	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP13	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP14	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP15	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP16	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP17	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP18	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP19	1251-3172	7	1	CONNECTOR-SGL CONT SKT .03-IN-BSC-SZ RND	01380	2-331677-9
MP20	1251-3172	7	1	CONNECTOR-SGL CONT SKT .03-IN-BSC-SZ RND	01380	2-331677-9
MP21	1251-3172	7	1	CONNECTOR-SGL CONT SKT .03-IN-BSC-SZ RND	01380	2-331677-9
MP22	1251-3172	7	1	CONNECTOR-SGL CONT SKT .03-IN-BSC-SZ RND	01380	2-331677-9
MP23	1251-3172	7	1	CONNECTOR-SGL CONT SKT .03-IN-BSC-SZ RND	01380	2-331677-9
MP24	1251-3172	7	1	CONNECTOR-SGL CONT SKT .03-IN-BSC-SZ RND	01380	2-331677-9
MP25	1251-3172	7	1	CONNECTOR-SGL CONT SKT .03-IN-BSC-SZ RND	01380	2-331677-9
MP26	1251-3172	7	1	CONNECTOR-SGL CONT SKT .03-IN-BSC-SZ RND	01380	2-331677-9
MP27	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP28	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP29	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP30	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP31	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP32	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP33	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP34	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP35	1251-1556	7	1	CONNECTOR-SGL CONT SKT .02-IN-BSC-SZ RND	01380	6-330808-5
MP36	1251-1556	7	1	CONNECTOR-SGL CONT SKT .02-IN-BSC-SZ RND	01380	6-330808-5
MP37	1251-1556	7	1	CONNECTOR-SGL CONT SKT .02-IN-BSC-SZ RND	01380	6-330808-5
MP38	1251-1556	7	1	CONNECTOR-SGL CONT SKT .02-IN-BSC-SZ RND	01380	6-330808-5
MP39	0515-0655	4	1	SCREW-MACH M3 X 0.5 8MM-LG PAN-HD	05610	
MP40	0535-0304	9	1	NUT-HEX DBL-CHAM M3 X 0.5 2.9MM-THK	06691	
MP41	2190-0564	0	1	WASHER-LK HLCL 3.0 3.1-MM-ID 6.2-MM-OD	06691	
MP42	8151-0014	5	1	WIRE 24AWG 1X24	05623	
MP43	1251-5595	2	1	POLARIZING KEY-POST CONN	04726	3518
MP44	1251-5595	2	1	POLARIZING KEY-POST CONN	04726	3518
Q1	1854-1054	8	1	TRANSISTOR NPN SI SOT-89 (TO-243AB)	28480	1854-1054
Q2	1854-1009	3	1	TRANSISTOR NPN SI PD = 580MW FT = 8GHZ	00039	NE21935
Q3	1854-1009	3	1	TRANSISTOR NPN SI PD = 580MW FT = 8GHZ	00039	NE21935
Q4	1854-1009	3	1	TRANSISTOR NPN SI PD = 580MW FT = 8GHZ	00039	NE21935
Q5	1854-1009	3	1	TRANSISTOR NPN SI PD = 580MW FT = 8GHZ	00039	NE21935
Q6	1854-1032	2	1	TRANSISTOR NPN SI PD = 2.5W	28480	1854-1032
Q7				NOT ASSIGNED		
Q8	1854-1285	7	1	TRANSISTOR NPN SI PD = 500MW	28480	1854-1285
Q9	1854-1032	2	1	TRANSISTOR NPN SI PD = 2.5W	28480	1854-1032
Q10	1855-0832	0	1	TRANSISTOR MOSFET P-CHAN E-MODE SI	28480	1855-0832
Q11	1855-0709	0	1	TRANSISTOR MOSFET N-CHAN E-MODE SI	28480	1855-0709
Q12	1854-1094	6	1	TRANSISTOR NPN SI SOT-89 (TO-243AB)	28480	1854-1094
Q13	1854-1094	6	1	TRANSISTOR NPN SI SOT-89 (TO-243AB)	28480	1854-1094
Q14	1854-1188	9	1	TRANSISTOR NPN SI SOT-23 (TO-236AB)	28480	1854-1188
Q15	1854-0920	5	1	TRANSISTOR NPN TO-220AB PD = 2W FT = 30MHZ	28480	1854-0920

†Refer to Section 7 for update information.

*Factory Selected Component (Refer to Section 5)

Δ Errata part change

Table 1-1. Replaceable Parts

Reference Designation	HP Part Number	C D	Qty.	Description	Mfr. Code	Mfr. Part Number
Q16	1854-1188	9	1	TRANSISTOR NPN SI SOT-23 (TO-236AB)	28480	1854-1188
R1	0699-1361	9	1	RESISTOR 51.1 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 51.1 OHM
R2	0699-1329	9	1	RESISTOR 6.19K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 6.19K OHM
R3	0699-1381	3	1	RESISTOR 3.48K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 3.48K OHM
R4	0699-1432	5	1	RESISTOR 511 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 511 OHM
R5	0699-1329	9	1	RESISTOR 6.19K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 6.19K OHM
R6	0699-1381	3	1	RESISTOR 3.48K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 3.48K OHM
R7	0699-1372	2	1	RESISTOR 1.47K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 1.47K OHM
R8	0699-1344	8	1	RESISTOR 10 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10 OHM
R9	0699-1344	8	1	RESISTOR 10 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10 OHM
R10	0699-1344	8	1	RESISTOR 10 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10 OHM
R11	0699-1344	8	1	RESISTOR 10 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10 OHM
R12	0699-1344	8	1	RESISTOR 10 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10 OHM
R13	0699-1361	9	1	RESISTOR 51.1 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 51.1 OHM
R14	0699-1344	8	1	RESISTOR 10 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10 OHM
R15	0699-1421	2	1	RESISTOR 178 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 178 OHM
R16	0699-1356	2	1	RESISTOR 31.6 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 31.6 OHM
R17	0699-1421	2	1	RESISTOR 178 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 178 OHM
R18	0699-1329	9	1	RESISTOR 6.19K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 6.19K OHM
R19	0699-1381	3	1	RESISTOR 3.48K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 3.48K OHM
R20	0699-1344	8	1	RESISTOR 10 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10 OHM
R21	0699-1344	8	1	RESISTOR 10 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10 OHM
R22	0699-1363	1	1	RESISTOR 61.9 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 61.9 OHM
R23	0699-1344	8	1	RESISTOR 10 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10 OHM
R24	0699-1415	4	1	RESISTOR 100 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 100 OHM
R25	0699-1363	1	1	RESISTOR 61.9 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 61.9 OHM
R26	0699-1415	4	1	RESISTOR 100 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 100 OHM
R27	0699-1329	9	1	RESISTOR 6.19K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 6.19K OHM
R28	0699-1381	3	1	RESISTOR 3.48K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 3.48K OHM
R29	0699-1344	8	1	RESISTOR 10 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10 OHM
R30	0699-1344	8	1	RESISTOR 10 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10 OHM
R31	0699-1363	1	1	RESISTOR 61.9 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 61.9 OHM
R32	0699-1344	8	1	RESISTOR 10 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10 OHM
R33	0699-1415	4	1	RESISTOR 100 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 100 OHM
R34	0699-1363	1	1	RESISTOR 61.9 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 61.9 OHM
R35	0699-1415	4	1	RESISTOR 100 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 100 OHM
R36	0699-1329	9	1	RESISTOR 6.19K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 6.19K OHM
R37	0699-1381	3	1	RESISTOR 3.48K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 3.48K OHM
R38	0699-1344	8	1	RESISTOR 10 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10 OHM
R39	0699-1344	8	1	RESISTOR 10 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10 OHM
R40	0699-1361	9	1	RESISTOR 51.1 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 51.1 OHM
R41	0699-1344	8	1	RESISTOR 10 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10 OHM
R42 - R44				NOT ASSIGNED		
R45	0699-1407	4	1	RESISTOR 46.4K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 46.4K OHM
R46	0699-1361	9	1	RESISTOR 51.1 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 51.1 OHM
R47	0699-1415	4	1	RESISTOR 100 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 100 OHM
R48	2100-1788	9	1	RESISTOR-TRMR 500 10% TKF TOP-ADJ 1-TRN	04568	82PR500
R49	0699-1415	4	1	RESISTOR 100 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 100 OHM
R50	0699-1361	9	1	RESISTOR 51.1 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 51.1 OHM
R51	0699-1318	6	1	RESISTOR 1K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 1K OHM
R52	0699-1403	0	1	RESISTOR 31.6K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 31.6K OHM

†Refer to Section 7 for update information

*Factory Selected Component (Refer to Section 5)

Δ Errata part change

Table 1-1. Replaceable Parts

Reference Designation	HP Part Number	C D	Qty.	Description	Mfr. Code	Mfr. Part Number
R53	0699-1403	0	1	RESISTOR 31.6K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 31.6K OHM
R54	0699-1385	7	1	RESISTOR 5.11K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 5.11K OHM
R55	0699-1385	7	1	RESISTOR 5.11K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 5.11K OHM
R56	0699-1318	6	1	RESISTOR 1K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 1K OHM
R57	0699-1385	7	1	RESISTOR 5.11K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 5.11K OHM
R58	0699-1318	6	1	RESISTOR 1K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 1K OHM
R59	0699-1385	7	1	RESISTOR 5.11K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 5.11K OHM
R60	0699-1391	5	1	RESISTOR 10K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10K OHM
R61	0699-1376	6	1	RESISTOR 2.15K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 2.15K OHM
R62	0699-1785	1	1	RESISTOR 13.3K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 13.3K OHM
R63	0699-1376	6	1	RESISTOR 2.15K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 2.15K OHM
R64	0699-1785	1	1	RESISTOR 13.3K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 13.3K OHM
R65	0699-1391	5	1	RESISTOR 10K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10K OHM
R66	0699-1433	6	1	RESISTOR 562 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 562 OHM
R67	0699-1377	7	1	RESISTOR 2.37K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 2.37K OHM
R68	0699-1389	7	1	RESISTOR 1.1K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 1.1K OHM
R69	0699-1384	6	1	RESISTOR 4.64K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 4.64K OHM
R70	0699-1434	7	1	RESISTOR 619 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 619 OHM
R71	0699-1438	1	1	RESISTOR 909 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 909 OHM
R72	0699-1319	7	1	RESISTOR 12.1K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 12.1K OHM
R73	0699-1408	5	1	RESISTOR 51.1K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 51.1K OHM
R74	0699-1391	5	1	RESISTOR 10K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10K OHM
R75	0699-1423	4	1	RESISTOR 215 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 215 OHM
R76	0699-1372	2	1	RESISTOR 1.47K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 1.47K OHM
R77	0699-1378	8	1	RESISTOR 2.61K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 2.61K OHM
R78	0699-1423	4	1	RESISTOR 215 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 215 OHM
R79	0699-1372	2	1	RESISTOR 1.47K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 1.47K OHM
R80	0699-1420	1	1	RESISTOR 162 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 162 OHM
R81	0699-1363	1	1	RESISTOR 61.9 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 61.9 OHM
R82	0699-1319	7	1	RESISTOR 12.1K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 12.1K OHM
R83	0699-1432	5	1	RESISTOR 511 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 511 OHM
R84	0699-1398	2	1	RESISTOR 21.5K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 21.5K OHM
R85	0699-1385	7	1	RESISTOR 5.11K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 5.11K OHM
R86	0699-1385	7	1	RESISTOR 5.11K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 5.11K OHM
R87	0699-1378	8	1	RESISTOR 2.61K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 2.61K OHM
R88	0699-1318	6	1	RESISTOR 1K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 1K OHM
R89	0699-1435	8	1	RESISTOR 681 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 681 OHM
R90	0699-1435	8	1	RESISTOR 681 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 681 OHM
R91	0699-1344	8	1	RESISTOR 10 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10 OHM
R92	0699-1355	1	1	RESISTOR 28.7 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 28.7 OHM
R93	0699-1355	1	1	RESISTOR 28.7 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 28.7 OHM
R94	0699-1355	1	1	RESISTOR 28.7 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 28.7 OHM
R95	0699-1355	1	1	RESISTOR 28.7 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 28.7 OHM
R96	0698-3622	7	1	RESISTOR 120 $\pm 5\%$ 2W MO TC = 0 \pm -200	02499	GS-3
R97	0699-1423	4	1	RESISTOR 215 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 215 OHM
R98	0698-3615	8	1	RESISTOR 47 $\pm 5\%$ 2W MO TC = 0 \pm -200	02499	GS-3
R99	0699-1356	2	1	RESISTOR 31.6 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 31.6 OHM
R100	0699-1421	2	1	RESISTOR 178 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 178 OHM
R101	0699-1421	2	1	RESISTOR 178 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 178 OHM
R102	0699-1361	9	1	RESISTOR 51.1 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 51.1 OHM

†Refer to Section 7 for update information

*Factory Selected Component (Refer to Section 5)

△ Errata part change

Table 1-1. Replaceable Parts

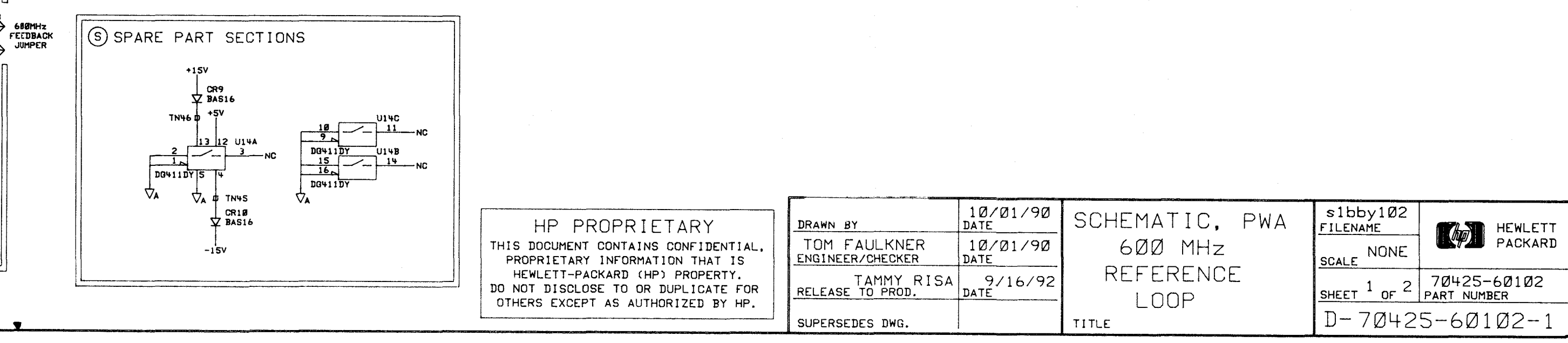
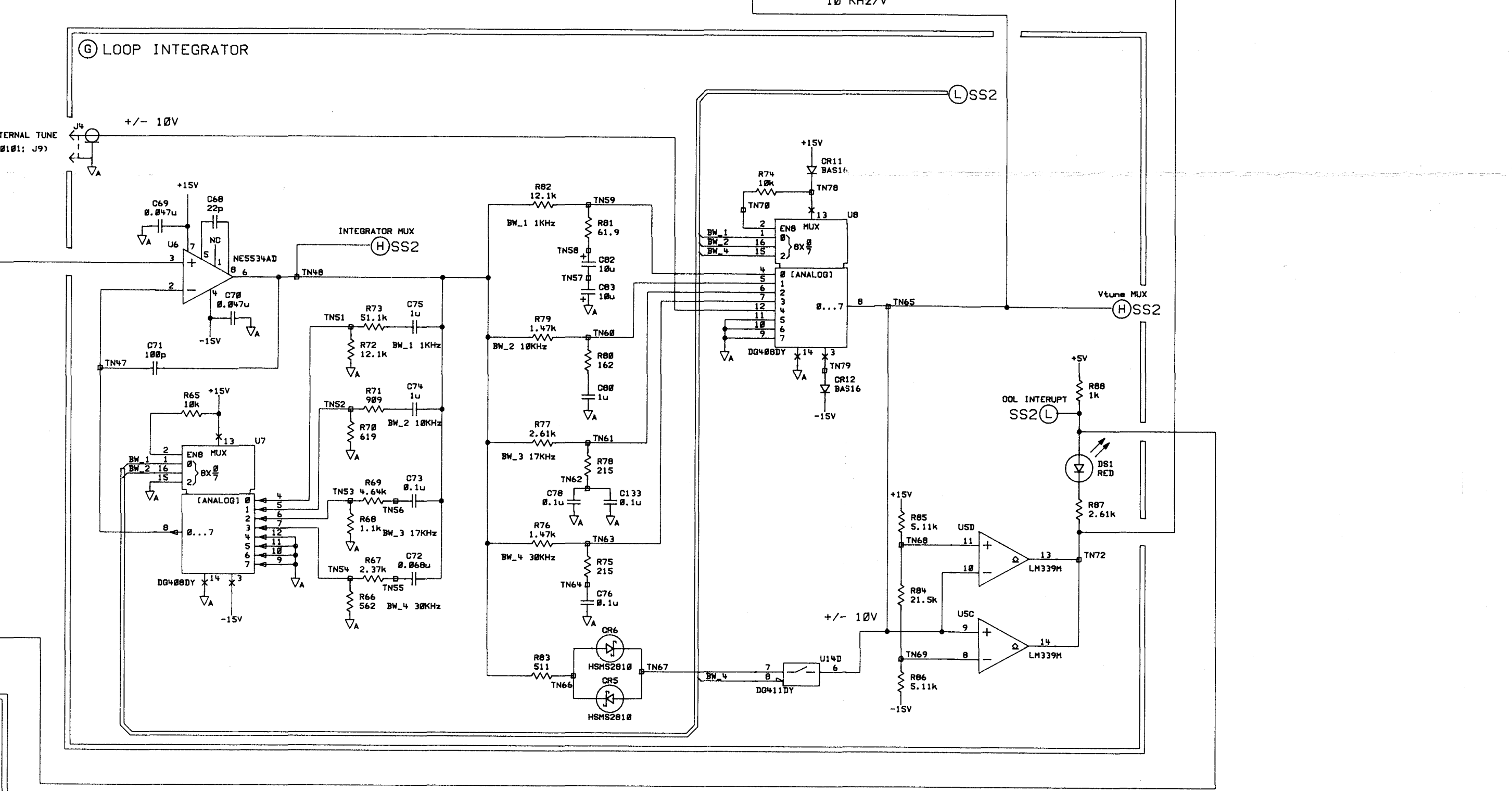
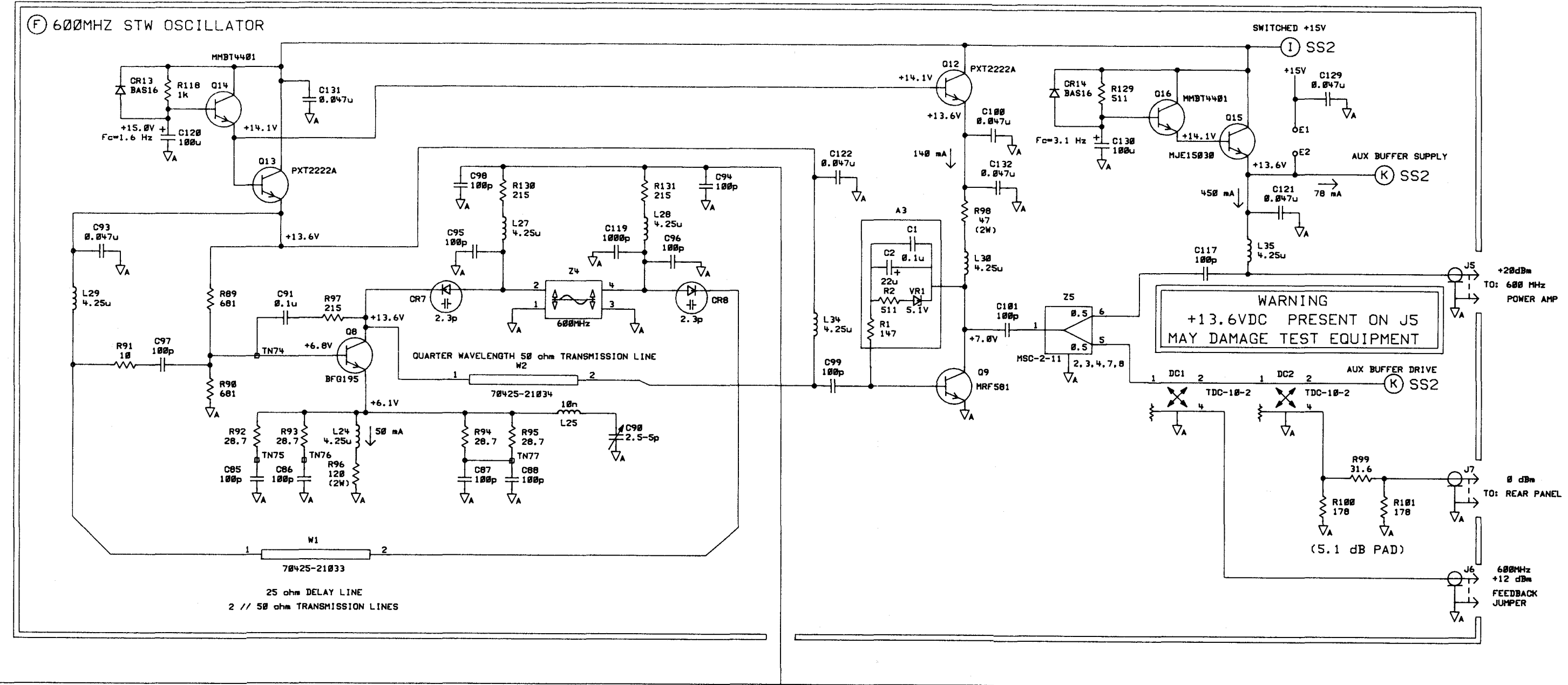
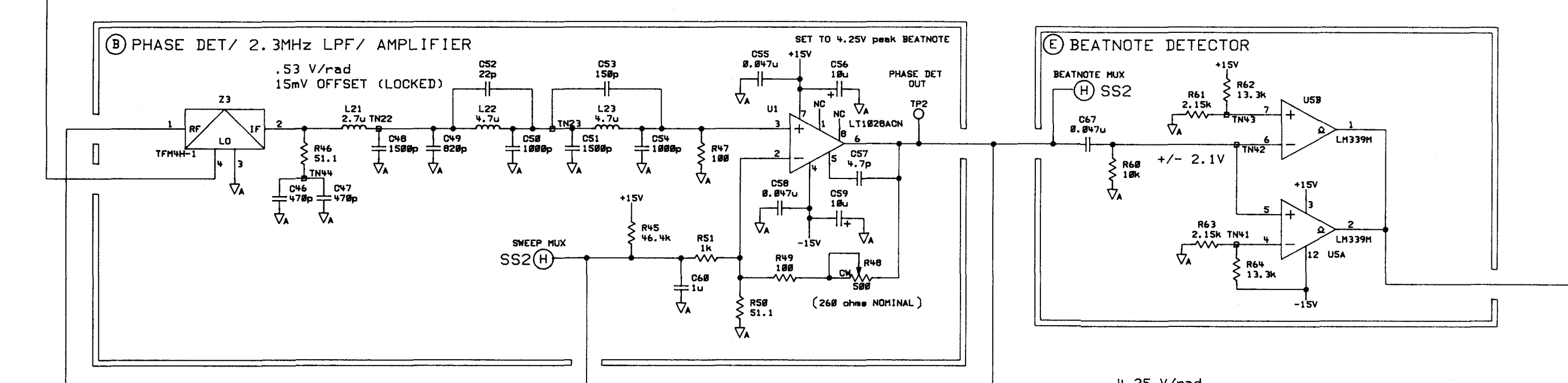
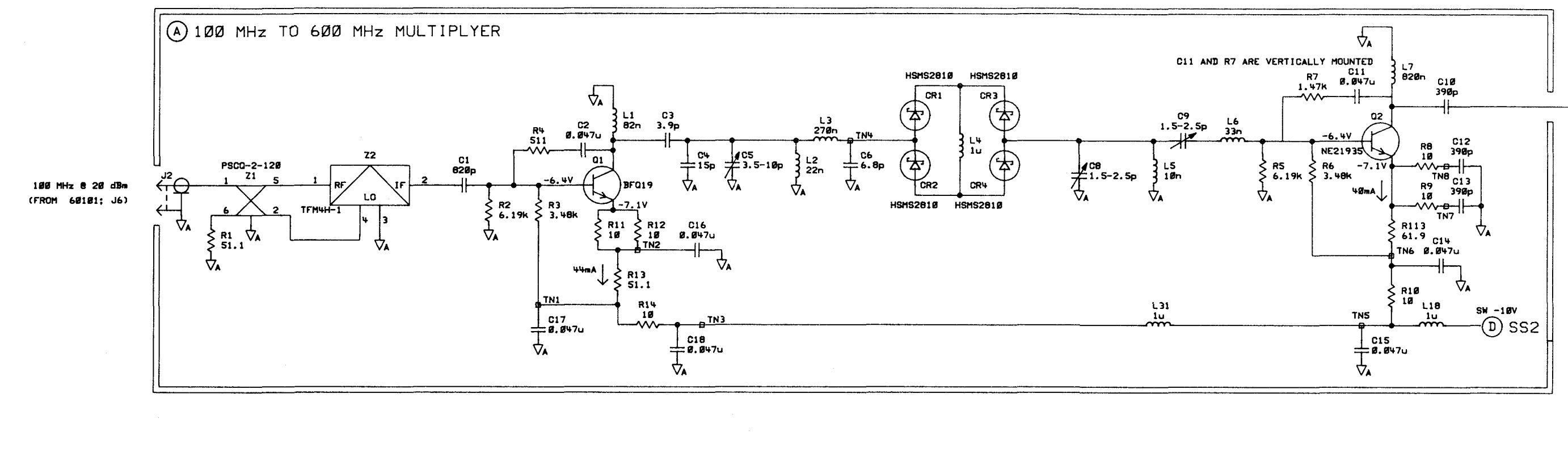
Reference Designation	HP Part Number	C D	Qty.	Description	Mfr. Code	Mfr. Part Number
R103	0699-1394	8	1	RESISTOR 14.7K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 14.7K OHM
R104	0699-1372	2	1	RESISTOR 1.47K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 1.47K OHM
R105				NOT ASSIGNED		
R106	0699-1391	5	1	RESISTOR 10K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10K OHM
R107				NOT ASSIGNED		
R108	0699-1318	6	1	RESISTOR 1K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 1K OHM
R109	0699-1391	5	1	RESISTOR 10K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10K OHM
R110	0699-1385	7	1	RESISTOR 5.11K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 5.11K OHM
R111 - R112				NOT ASSIGNED		
R113	0699-1363	1	1	RESISTOR 61.9 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 61.9 OHM
R114	0699-1391	5	1	RESISTOR 10K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10K OHM
R115	0698-3618	1	1	RESISTOR 82 $\pm 5\%$ 2W MO TC = 0 \pm -200	02499	GS-3
R116				NOT ASSIGNED		
R117	0699-1391	5	1	RESISTOR 10K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10K OHM
R118	0699-1318	6	1	RESISTOR 1K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 1K OHM
R119				NOT ASSIGNED		
R120	0699-1318	6	1	RESISTOR 1K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 1K OHM
R121 - R122				NOT ASSIGNED		
R123	0699-1355	1	1	RESISTOR 28.7 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 28.7 OHM
R124	0699-1318	6	1	RESISTOR 1K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 1K OHM
R125	0699-1318	6	1	RESISTOR 1K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 1K OHM
R126	0699-1355	1	1	RESISTOR 28.7 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 28.7 OHM
R127	0699-1355	1	1	RESISTOR 28.7 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 28.7 OHM
R128	0699-1355	1	1	RESISTOR 28.7 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 28.7 OHM
R129	0699-1432	5	1	RESISTOR 511 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 511 OHM
R130	0699-1423	4	1	RESISTOR 215 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 215 OHM
R131	0699-1423	4	1	RESISTOR 215 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 215 OHM
R132	0699-1391	5	1	RESISTOR 10K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10K OHM
R133	0699-1391	5	1	RESISTOR 10K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10K OHM
TP1	0360-0535	0	1	CONNECTOR-SGL CONT TML-TS-PT	13296	
TP2	1251-0600	0	1	CONNECTOR-SGL CONT PIN 1.14-MM-BSC-SZ SO	03418	16-06-0034
U1	1826-1804	7	1	IC OP AMP LOW-NOISE 8 PIN DIP-P	28480	1826-1804
U2	1826-2145	1	1	ANALOG SWITCH 4 SPST 16 -P-SOIC	28480	1826-2145
U3	1820-4245	4	1	IC GATE TTL/ALS NOR QUAD 2-INP	28480	1820-4245
U4	1826-1602	3	1	IC MISC SINGLE 8 PIN PLSTC-SOIC	28480	1826-1602
U5	1826-1528	2	1	IC COMPARATOR LP QUAD 14 PIN PLSTC-SOIC	28480	1826-1528
U6	1826-1546	4	1	IC OP AMP LOW-NOISE SINGLE 8 PIN	28480	1826-1546
U7	1826-2147	3	1	ANALOG MULTIPLEXER 8 CHNL 16 -P-SOIC	28480	1826-2147
U8	1826-2147	3	1	ANALOG MULTIPLEXER 8 CHNL 16 -P-SOIC	28480	1826-2147
U9	1826-1572	6	1	IC COMPARATOR PRCN DUAL 8 PIN PLSTC-SOIC	28480	1826-1572
U10	1826-2147	3	1	ANALOG MULTIPLEXER 8 CHNL 16 -P-SOIC	28480	1826-2147
U11	1826-1810	5	1	IC OP AMP LOW-BIAS-HIMPD SINGLE 8 PIN	28480	1826-1810
U12	1820-1437	0	1	IC MV TTL/LS MONOSTBL CLEAR DUAL	28480	1820-1437
U13	1820-6752	2	1	IC-ASIC GT-ARY CMOS 6206 PLCC	28480	1820-6752
U14	1826-1985	5	1	ANALOG SWITCH 4 SPST 16 -P-SOIC	28480	1826-1985
W1	70425-21033	9	1		28480	70425-21033
W2	70425-21034	0	1		28480	70425-21034
Z1	0955-0658	9	1	U-WAVE POWER SPLITTER 120 MHZ MAX	02739	PSCQ-2-120
Z2	0955-0234	7	1		02739	TFM 4H-1
Z3	0955-0234	7	1		02739	TFM 4H-1
Z4	1GA1-8018	2	1		28480	1GA1-8018
Z5	0955-0657	8	1	U-WAVE POWER SPLITTER 2 GHZ MAX	02739	MSC-2-11

†Refer to Section 7 for update information.

*Factory Selected Component (Refer to Section 5)

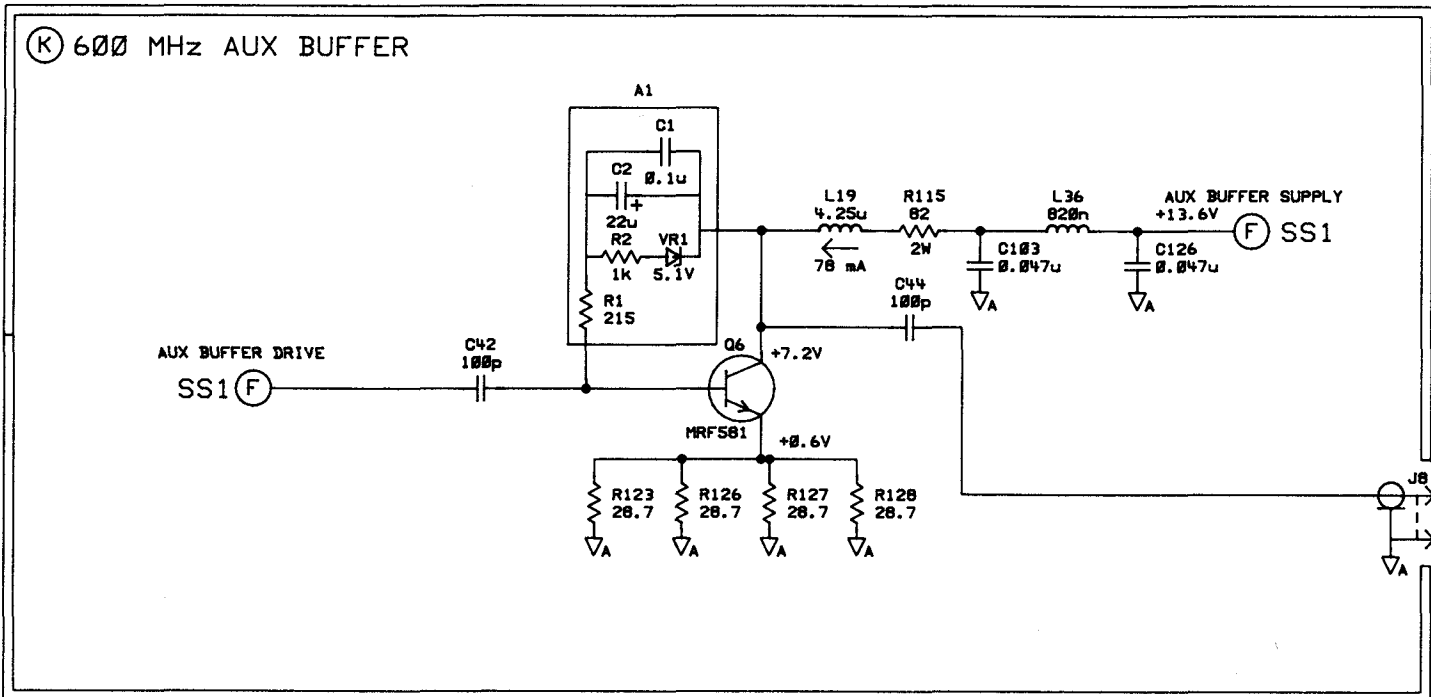
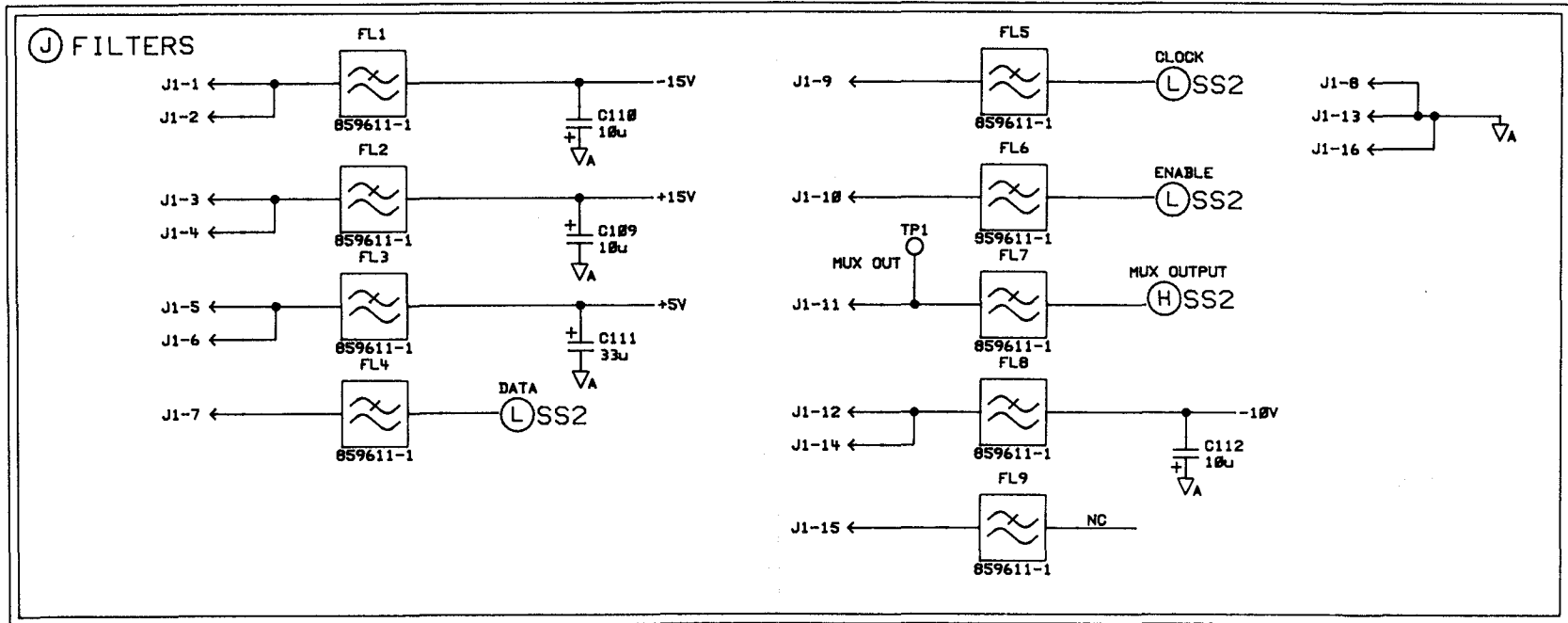
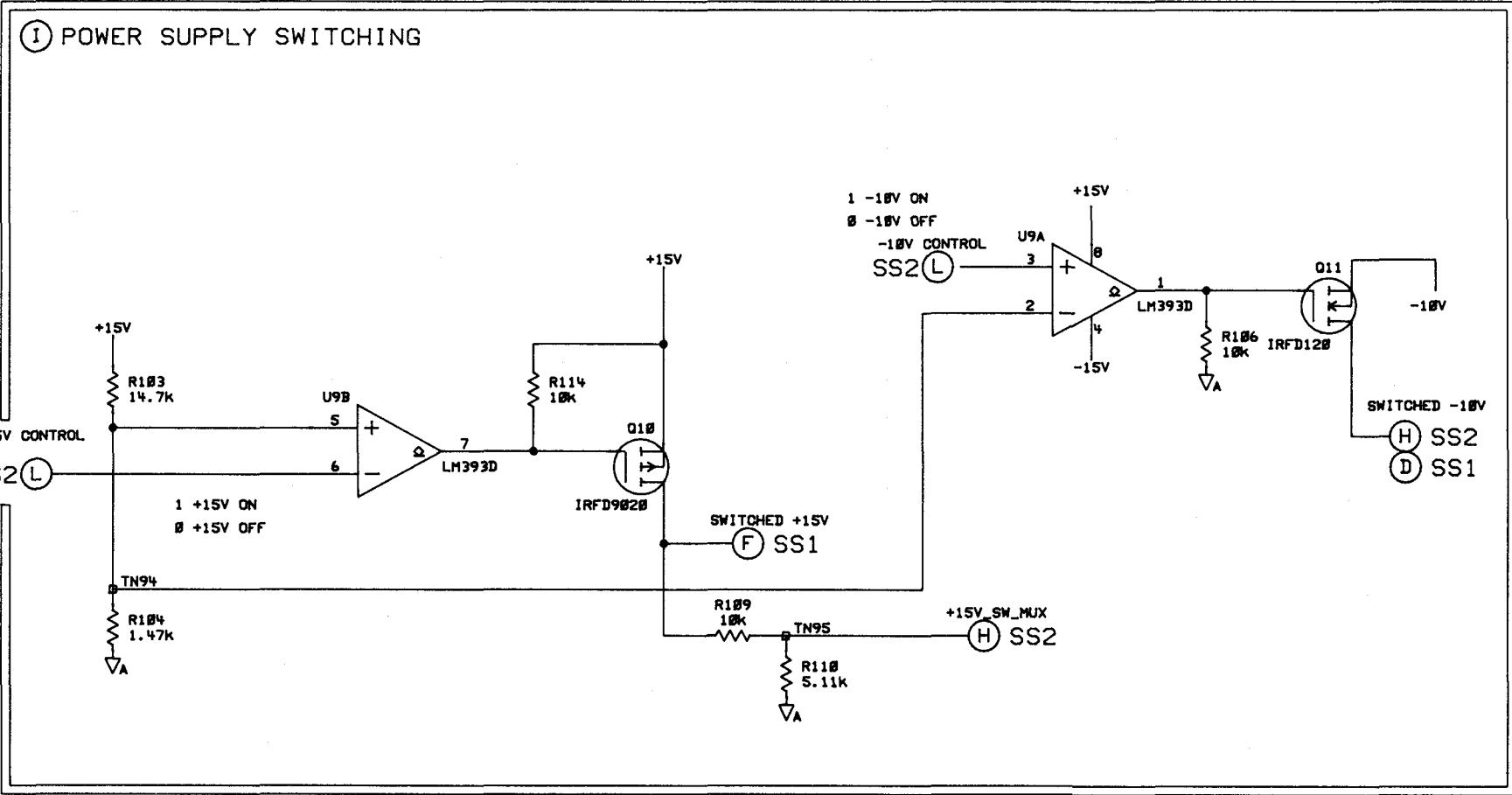
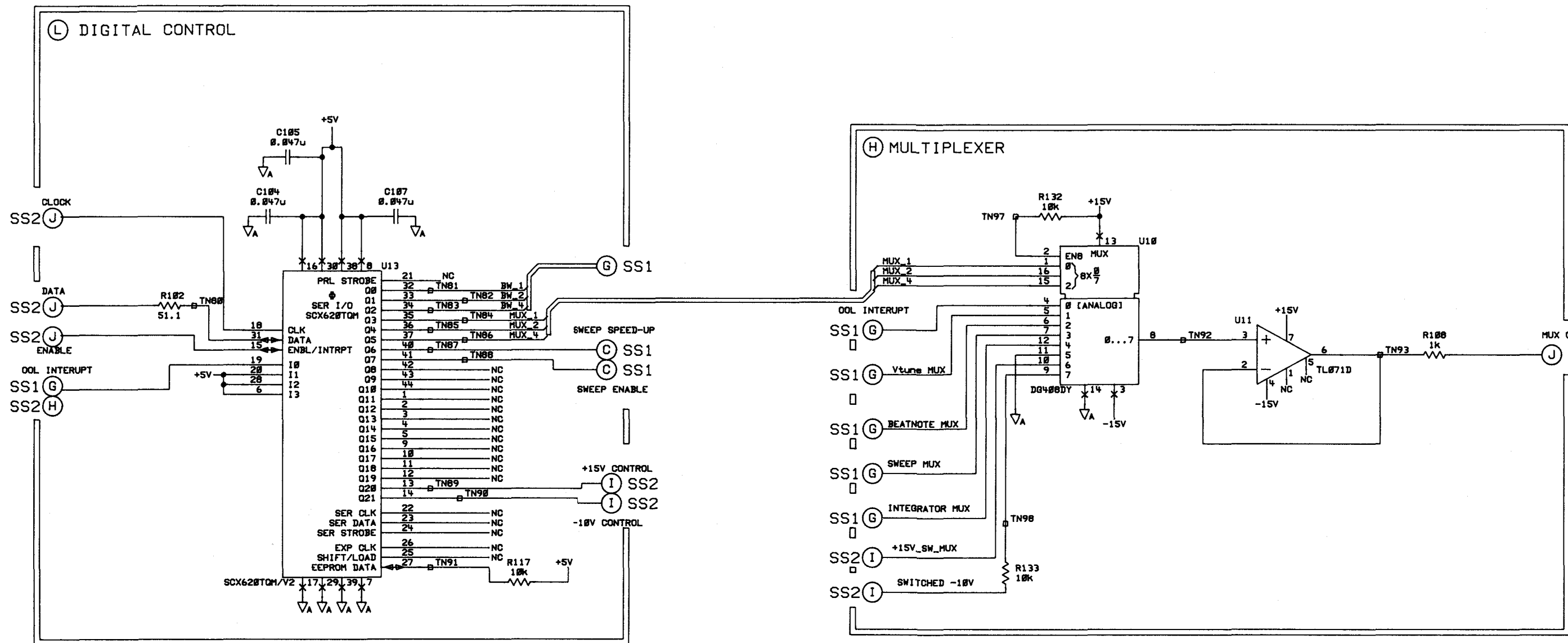
△ Errata part change

B-101992-10		D-70425-60102-1	
SYM	REVISIONS	APPROVED	DATE
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B	CHG'D PER PCO 107360	TAMMY RISA/AB	10/20/92

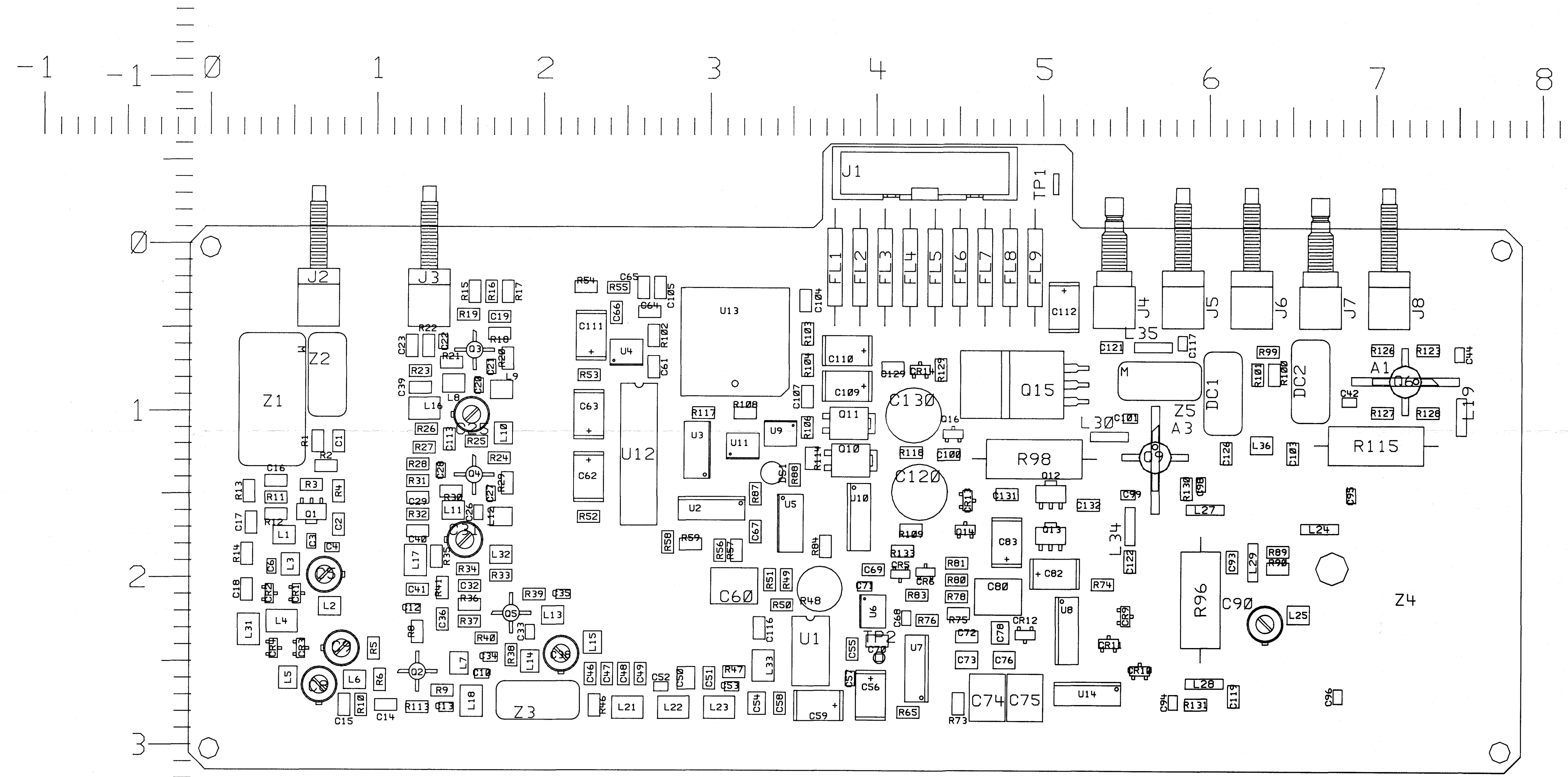


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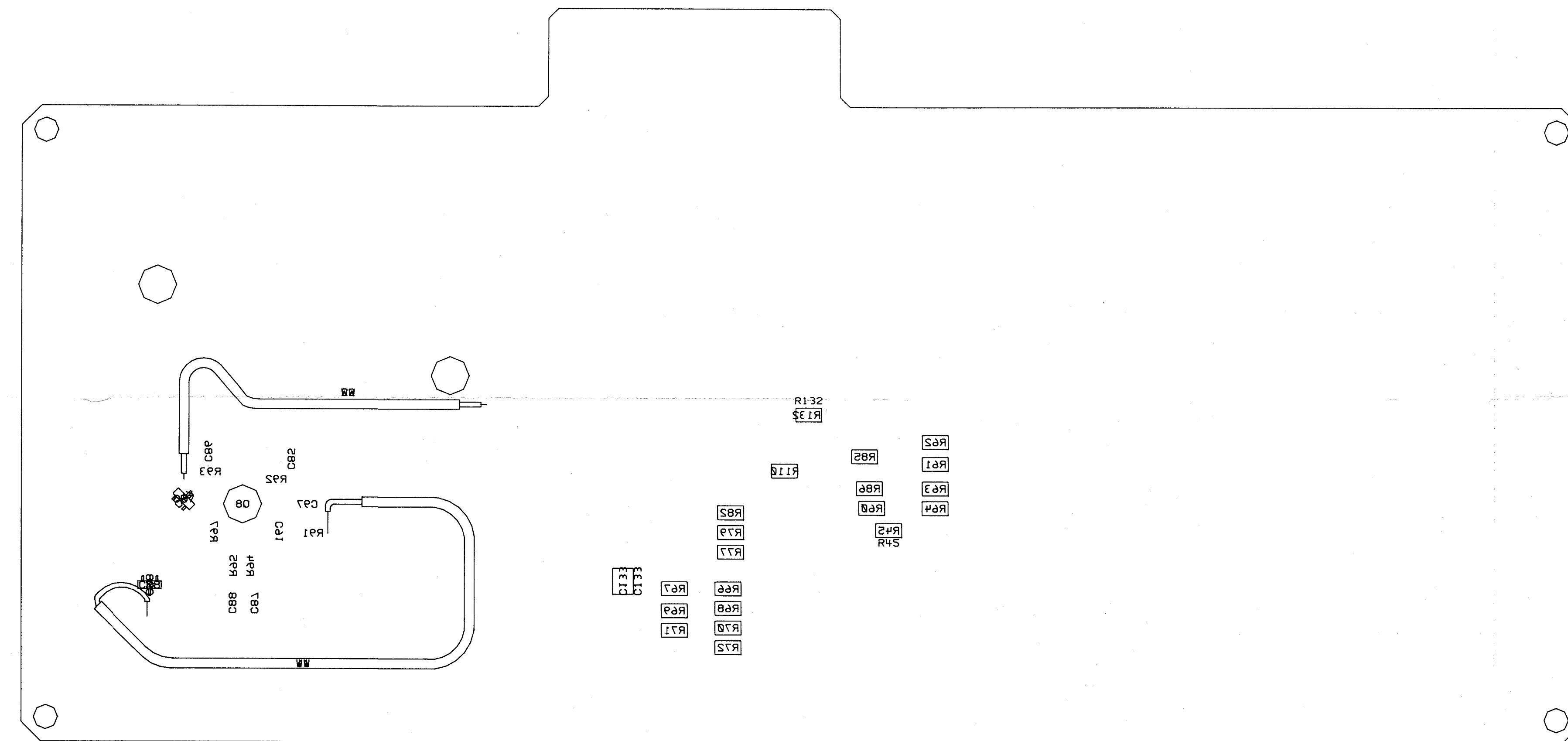
B-101992-10		D-70425-60102-1	
SYM	REVISIONS	APPROVED	DATE
A	AS ISSUED WITH CHG'S	T.FAULKNER/TR/AB	9/16/92
B	CHG'D PER PCO 107360	TAMMY RISA/AB	10/20/92



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--	--	--	---	---	--------------------



70425-60102 FRONT



70425-60102 BACK

Component-Level Information Packet for 70425-60115

A7A2A1 Rainbow 215



**HP Part No. 70425-61808
Printed in USA September 1995**

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Table 1-1. Replaceable Parts

Reference Designation	HP Part Number	C D	Qty.	Description	Mfr. Code	Mfr. Part Number
A7A2A1						
A7A2A1	70425-60115	0	1	BD AY-RAINBOW	28480	70425-60115
C1	0160-6222	0	1	CAP-FXD 0.1uF +-10% 50 V CER X7R	09939	GRM42-2X7R104K050V
C2	0180-4116	9	1	CAP-FXD 22uF +-20% 20 V TA	00039	NRD226M20R12
MP1	70425-20114	5	1		28480	70425-20114
R1	0699-1423	4	1	RESISTOR 215 +-1% .125W TKF TC = 0 +-100	06119	D25 215 OHM
R2	0699-1318	6	1	RESISTOR 1K +-1% .125W TKF TC = 0 +-100	06119	D25 1K OHM
VR1	1902-0951	5	1	DIODE-ZNR 5.1V 5% DO-35 PD = .4W TC = +.035%	28480	1902-0951

†Refer to Section 7 for update information.

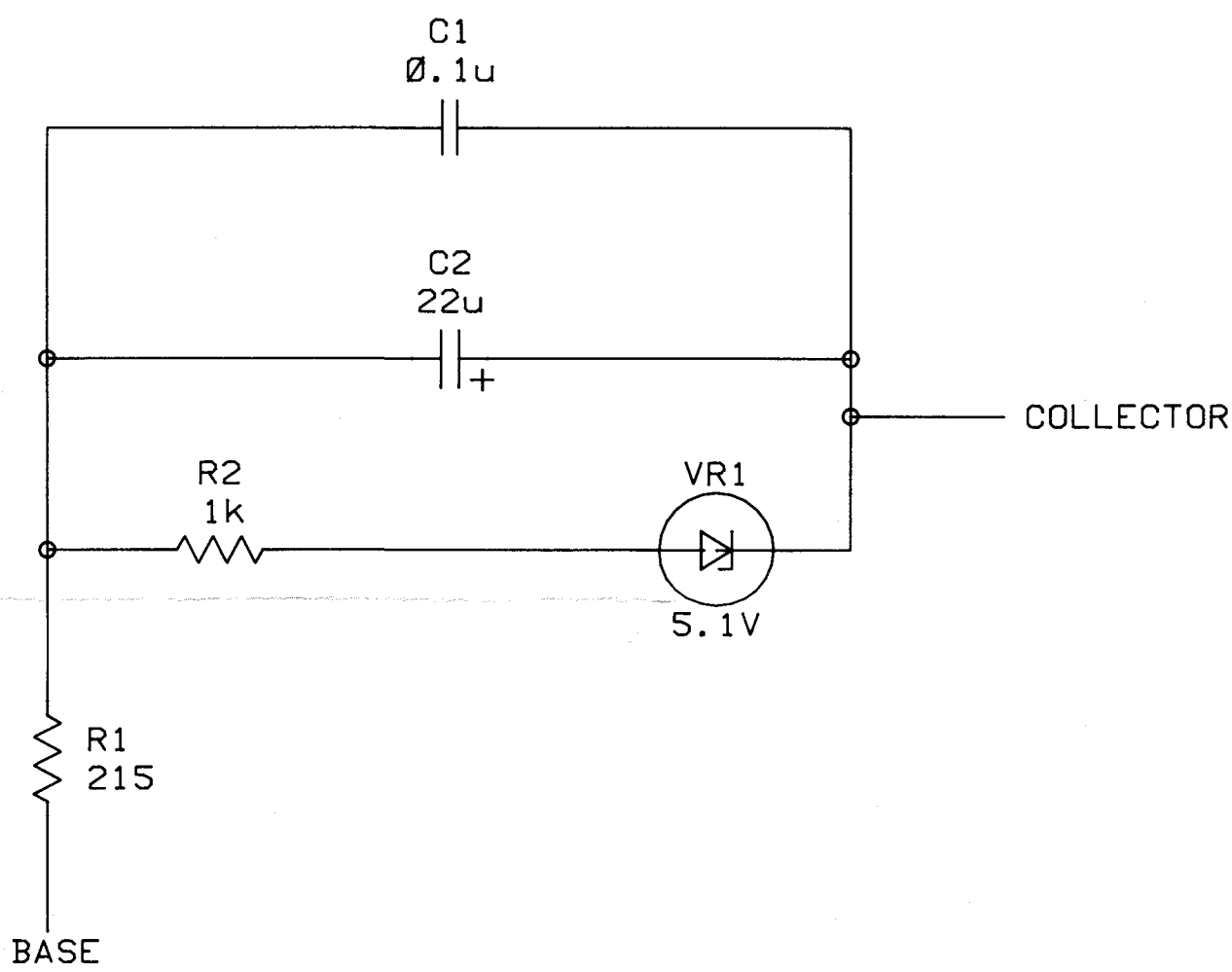
*Factory Selected Component (Refer to Section 5).

Δ Errata part change

A-112191-10

B-70425-60115-1

SYM	REVISIONS	APPROVED	DATE
A	A AS ISSUED	T. FAULKNER/TR/AL	9/16/92



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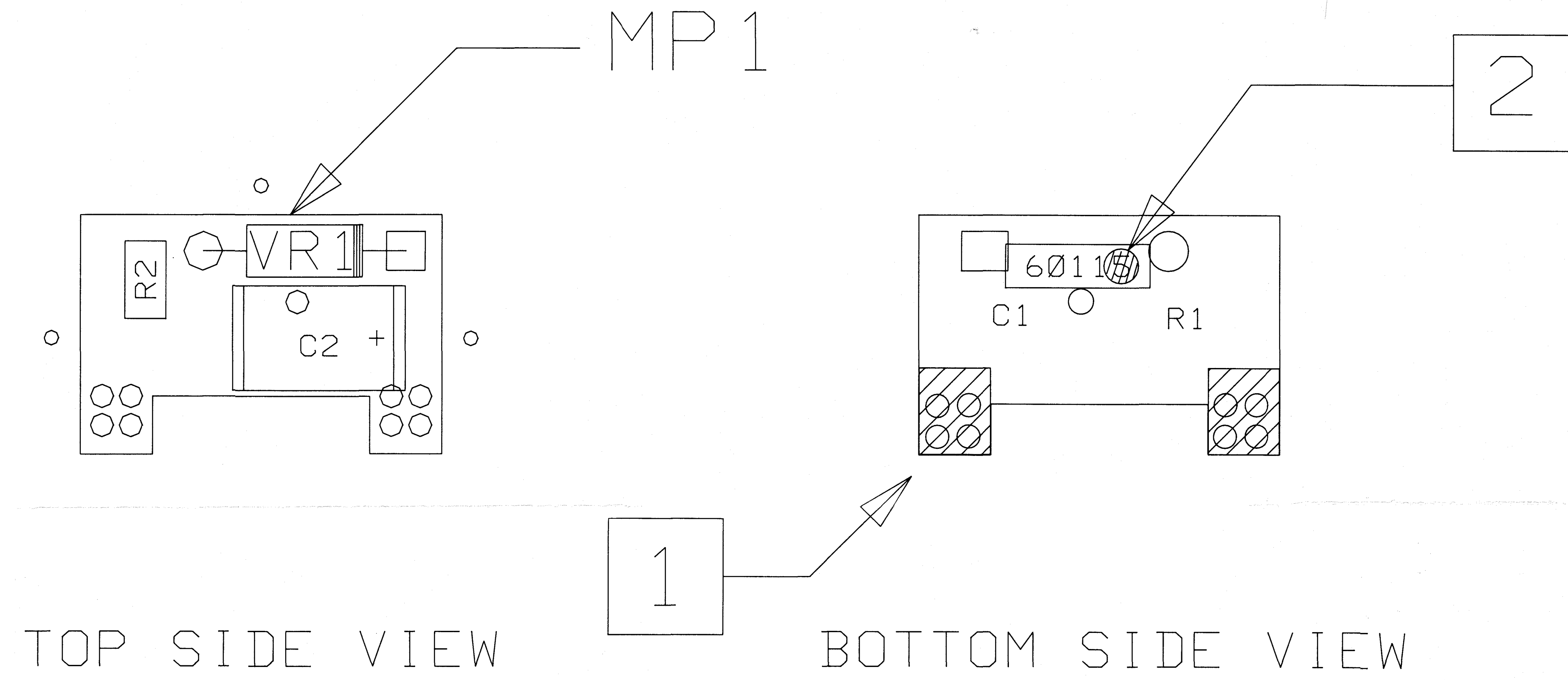
TERI MACHTMES DRAWN BY	29JAN90 DATE
TOM FAULKNER ENGINEER/CHECKER	29JAN90 DATE
TAMMY RISA RELEASE TO PROD.	9/16/92 DATE
SUPERSEDES DWG.	

SCHEMATIC, PWA
RAINBOW 215 OHM
TITLE

s1bby115 FILENAME	HEWLETT PACKARD
SCALE NONE	
SHEET 1 OF 1	70425-60115 PART NUMBER
B-70425-60115-1	

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C-70425-60115-2			
SYM	REVISIONS	APPROVED	DATE
A	A AS ISSUED WITH CHG'S	T. FAULKNER/TR/AB	9/16/92



NOTES:

- 1 MASK AREAS SHOWN ON BOTTOM SIDE.
- 2 70425-60115 USES 70425-60114 BOARD AS ITS RAW BOARD. A GREEN DOT OVER THE LAST DIGIT OF THE ASSEMBLY NUMBER WILL BE USED ON THE 60115 ASSEMBLY.

COMPONENT LOCATER 1

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.	MARY MARTIN DRAWN BY	2-7-90 DATE	ASSEMBLY, PWB	a1bby115 FILENAME	HEWLETT PACKARD
	TOM FAULKNER ENGINEER/CHECKER	2-7-90 DATE		SCALE NONE	
TOLERANCES: XX.XXX ±.010 XX.XX ±.02	TAMMY RISA RELEASE TO PROD.	9/16/92 DATE	RAINBOW 215 OHM	SHEET 1 OF 1	70425-60115 PART NUMBER
THIRD ANGLE PROJECTION	SUPERSEDES DWG.			C-70425-60115-2	
DO NOT SCALE THIS DRAWING			TITLE		

Component-Level Information Packet for 70425-60114

A7A2A3 Rainbow 147



**HP Part No. 70425-61808
Printed in USA September 1995**

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Table 1-1. Replaceable Parts

Reference Designation	HP Part Number	C D	Qty.	Description	Mfr. Code	Mfr. Part Number
A7A2A3						
A7A2A3	70425-60114	9	1	BD AY-RAINBOW	28480	70425-60114
C1	0160-6222	0	1	CAP-FXD 0.1uF + -10% 50 V CER X7R	09939	GRM42-2X7R104K050V
C2	0180-4116	9	1	CAP-FXD 22uF + -20% 20 V TA	00039	NRD226M20R12
MP1	70425-20114	5	1		28480	70425-20114
R1	0699-1419	8	1	RESISTOR 147 + -1% .125W TKF TC = 0 + -100	06119	D25 147 OHM
R2	0699-1432	5	1	RESISTOR 511 + -1% .125W TKF TC = 0 + -100	06119	D25 511 OHM
VR1	1902-0951	5	1	DIODE-ZNR 5.1V 5% DO-35 PD = .4W TC = + .035%	28480	1902-0951

†Refer to Section 7 for update information.

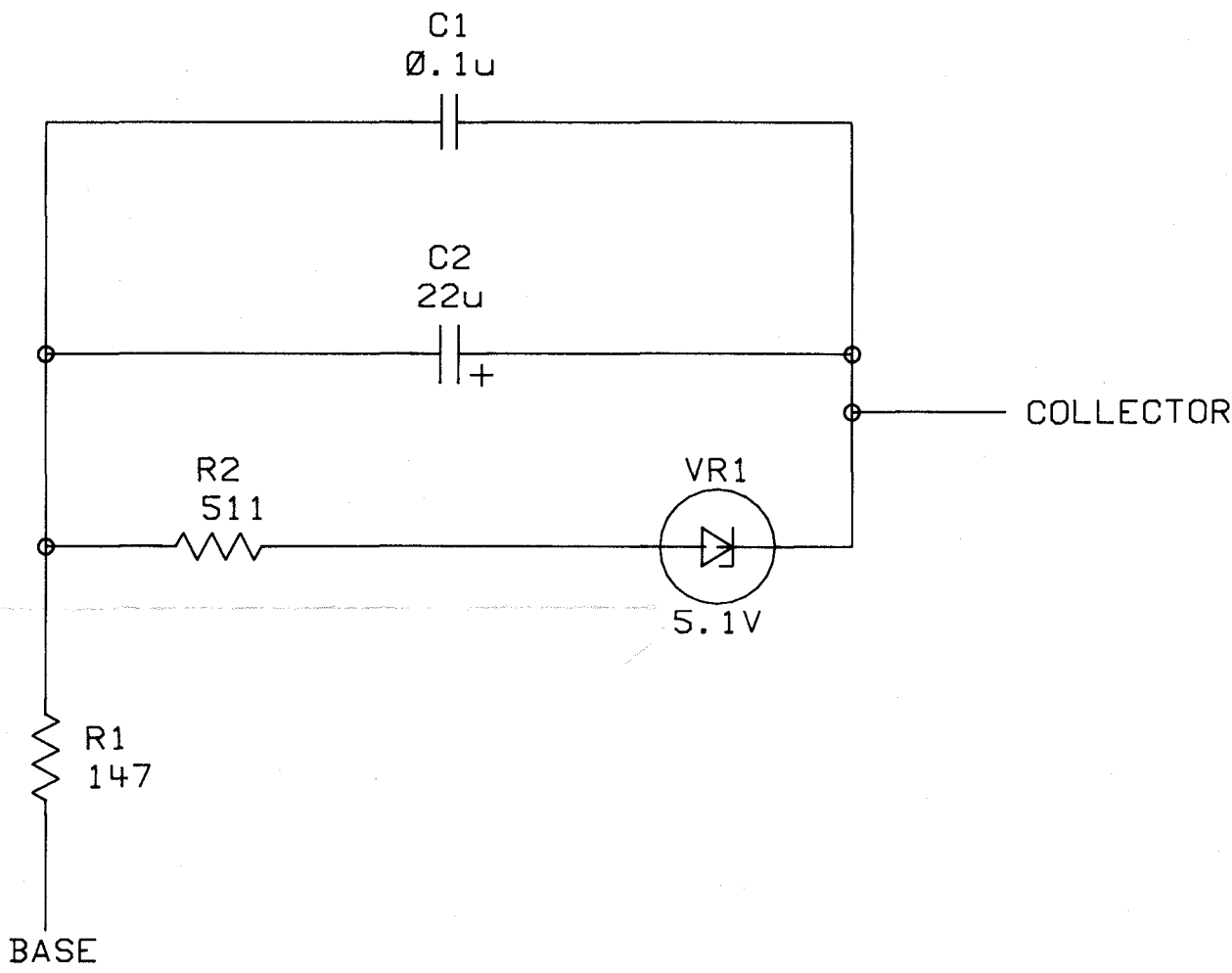
*Factory Selected Component (Refer to Section 5).

Δ Errata part change.

A-112191-10

B-70425-60114-1

SYM	REVISIONS	APPROVED	DATE
A	A AS ISSUED	T. FAULKNER/TR/AB	9/16/92



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TERI MACHTMES
DRAWN BY

29JAN90
DATE

T. FAULKNER
ENGINEER/CHECKER

29JAN90
DATE

TAMMY RISA
RELEASE TO PROD.

9/16/92
DATE

SUPERSEDES DWG.

SCHEMATIC, PWA

RAINBOW BD
147 OHM

TITLE

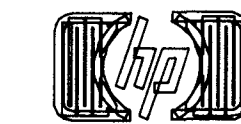
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1 OF 1
SHEET

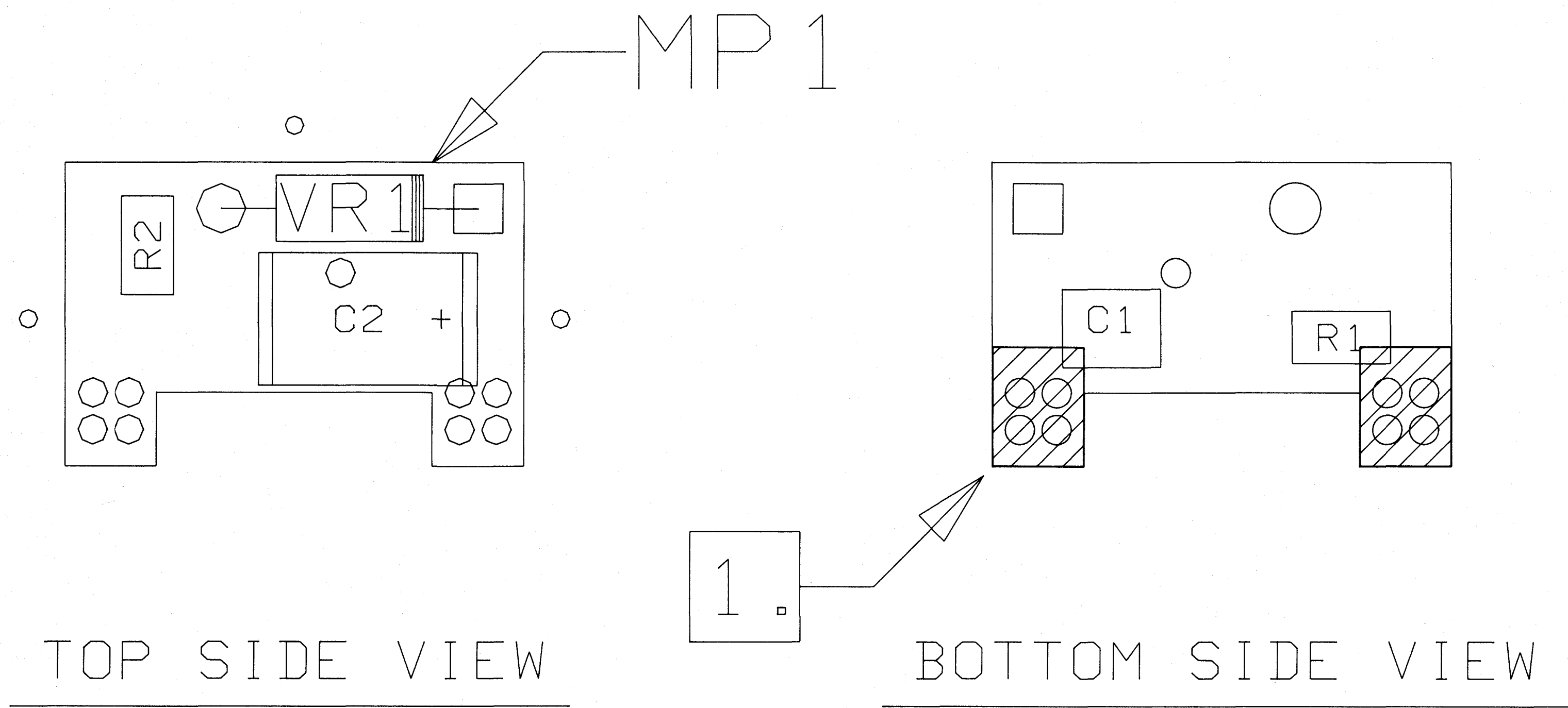
B-70425-60114-1

HEWLETT
PACKARD



70425-60114
PART NUMBER

C-70425-60114-2			
SYM	REVISIONS	APPROVED	DATE
A	A AS ISSUED WITH CHG'S	T.FAULKNER/TR/AB	9/16/92



NOTES:

1. MASK AREAS SHOWN ON BOTTOM SIDE

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COMPONENT LOCATER 1

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.	STEVE KAY DRAWN BY	1-31-90 DATE	ASSEMBLY, PWB	a1bby114 FILENAME	HEWLETT PACKARD
	T. FAULKNER ENGINEER/CHECKER	1-31-90 DATE		SCALE NONE	
THIRD ANGLE PROJECTION	TAMMY RISA RELEASE TO PROD.	9/16/92 DATE	RAINBOW BD 147 OHM	SHEET 1 OF 1	70425-60114 PART NUMBER
DO NOT SCALE THIS DRAWING	SUPERSEDES DWG.			C-70425-60114-2	
			TITLE		

Component-Level Information Packet for 70425-60108

A8 1500 MHz IF Amplifier



**HP Part No. 70425-61805
Printed in USA September 1995**

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Table 1-1. Replaceable Parts

Reference Designation	HP Part Number	C D	Qty.	Description	Mfr. Code	Mfr. Part Number
A4A1						
A4A1	70425-60108	1	1	BD AY4F AMP	28480	70425-60108
C1	0160-5977	0	1	CAP-FXD 1.2pF + -21% 50 V CER C0G	09939	GRM40-001C0G1R2C050C
C2	0160-5977	0	1	CAP-FXD 1.2pF + -21% 50 V CER C0G	09939	GRM40-001C0G1R2C050C
C3	0160-5978	1	1	CAP-FXD 2.2pF + -22.73% 50 V CER C0G	09939	GRM40-001C0G2R2D050C
C4	0160-5979	2	1	CAP-FXD 1.5pF + -33.33% 50 V CER C0G	09939	GRM40-001C0G1R5D050C
C5	0160-5979	2	1	CAP-FXD 1.5pF + -33.33% 50 V CER C0G	09939	GRM40-001C0G1R5D050C
C6	0160-5942	9	1	CAP-FXD 1pF + -25% 50 V CER C0G	09939	GRM40-001C0G1R0C050B
C7	0160-5942	9	1	CAP-FXD 1pF + -25% 50 V CER C0G	09939	GRM40-001C0G1R0C050B
C8	0160-7168	5	1	CAP-FXD 0.47pF + -21.3% 100 V CER C0G	09939	GRM40C0GR47B100A
C9	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C10	0160-7333	6	1	CAP-FXD 0.068uF + -10% 50 V CER X7R	28480	0160-7333
C11				NOT ASSIGNED		
C12	0160-7333	6	1	CAP-FXD 0.068uF + -10% 50 V CER X7R	28480	0160-7333
C13	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C14	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C15	0160-7333	6	1	CAP-FXD 0.068uF + -10% 50 V CER X7R	28480	0160-7333
C16				NOT ASSIGNED		
C17	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C18	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C19	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C20	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C21	0160-7333	6	1	CAP-FXD 0.068uF + -10% 50 V CER X7R	28480	0160-7333
C22				NOT ASSIGNED		
C23	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C24	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C25	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C26	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C27	0160-7333	6	1	CAP-FXD 0.068uF + -10% 50 V CER X7R	28480	0160-7333
C28				NOT ASSIGNED		
C29	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C30	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C31 - C33				NOT ASSIGNED		
C34	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C35 - C38				NOT ASSIGNED		
C39	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C40	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C41	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C42	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C43	0160-7333	6	1	CAP-FXD 0.068uF + -10% 50 V CER X7R	28480	0160-7333
C44	0160-7333	6	1	CAP-FXD 0.068uF + -10% 50 V CER X7R	28480	0160-7333
C45	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C46	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C47	0160-7333	6	1	CAP-FXD 0.068uF + -10% 50 V CER X7R	28480	0160-7333
C48	0160-7333	6	1	CAP-FXD 0.068uF + -10% 50 V CER X7R	28480	0160-7333
C49	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C50	0160-7333	6	1	CAP-FXD 0.068uF + -10% 50 V CER X7R	28480	0160-7333
C51	0160-7333	6	1	CAP-FXD 0.068uF + -10% 50 V CER X7R	28480	0160-7333
C52	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C53	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C54	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C55	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C

†Refer to Section 7 for update information.

*Factory Selected Component (Refer to Section 5).

Δ Errata part change

Table 1-1. Replaceable Parts

Reference Designation	HP Part Number	C D	Qty.	Description	Mfr. Code	Mfr. Part Number
C56	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C57	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C58	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C59 - C62				NOT ASSIGNED		
C63	0160-5964	5	1	CAP-FXD 180pF +-5% 50 V CER C0G	09939	GRM40-001C0G181J050C
C64	0160-5958	7	1	CAP-FXD 39pF +-5% 50 V CER C0G	09939	GRM40-001C0G390J050C
C65	0160-5955	4	1	CAP-FXD 68pF +-5% 50 V CER C0G	09939	GRM40-001C0G680J050C
C66	0160-5967	8	1	CAP-FXD 100pF +-5% 50 V CER C0G	09939	GRM40-001C0G101J050C
C67	0160-7376	7	1	CAP-FXD 24pF +-5% 50 V CER C0G	28480	0160-7376
C68	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C69	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C70	0160-5969	0	1	CAP-FXD 3.3pF +-7.58% 50 V CER C0G	09939	GRM40-001C0G3R3C050C
C71	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C72	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C73	0160-5959	8	1	CAP-FXD 33pF +-5% 50 V CER C0G	09939	GRM40-001C0G330J050C
C74	0160-6216	2	1	CAP-FXD 1000pF +-5% 50 V CER C0G	09939	GRM42-2C0G102J050C
C75	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C76	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C77	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C78	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C79	0180-3754	9	1	CAP-FXD 10uF +-20% 25 V TA	00039	NRD106M25P12
C80	0180-3754	9	1	CAP-FXD 10uF +-20% 25 V TA	00039	NRD106M25P12
C81	0180-3755	0	1	CAP-FXD 33uF +-20% 10 V TA	00039	NRD336M10R12
C82	0180-3755	0	1	CAP-FXD 33uF +-20% 10 V TA	00039	NRD336M10R12
C83	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C84	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C85	0180-3755	0	1	CAP-FXD 33uF +-20% 10 V TA	00039	NRD336M10R12
C86	0180-3755	0	1	CAP-FXD 33uF +-20% 10 V TA	00039	NRD336M10R12
C87 - C95				NOT ASSIGNED		
C96	0160-7333	6	1	CAP-FXD 0.068uF +-10% 50 V CER X7R	28480	0160-7333
C97	0160-7333	6	1	CAP-FXD 0.068uF +-10% 50 V CER X7R	28480	0160-7333
C98	0160-7333	6	1	CAP-FXD 0.068uF +-10% 50 V CER X7R	28480	0160-7333
C99	0160-7168	5	1	CAP-FXD 0.47pF +-21.3% 100 V CER C0G	09939	GRM40C0GR47B100A
C100	0160-7168	5	1	CAP-FXD 0.47pF +-21.3% 100 V CER C0G	09939	GRM40C0GR47B100A
C101	0160-7333	6	1	CAP-FXD 0.068uF +-10% 50 V CER X7R	28480	0160-7333
C102	0160-7333	6	1	CAP-FXD 0.068uF +-10% 50 V CER X7R	28480	0160-7333
C103	0160-7333	6	1	CAP-FXD 0.068uF +-10% 50 V CER X7R	28480	0160-7333
C104	0160-6104	7	1	CAP-FXD 2200pF +-5% 50 V CER C0G	09939	GRM42-6C0G222J050C
C105	0160-7168	5	1	CAP-FXD 0.47pF +-21.3% 100 V CER C0G	09939	GRM40C0GR47B100A
C106	0160-7333	6	1	CAP-FXD 0.068uF +-10% 50 V CER X7R	28480	0160-7333
C107	0160-7333	6	1	CAP-FXD 0.068uF +-10% 50 V CER X7R	28480	0160-7333
C108	0160-7333	6	1	CAP-FXD 0.068uF +-10% 50 V CER X7R	28480	0160-7333
C109	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C110	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C111	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C112	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C113	0160-7333	6	1	CAP-FXD 0.068uF +-10% 50 V CER X7R	28480	0160-7333
C114	0160-7333	6	1	CAP-FXD 0.068uF +-10% 50 V CER X7R	28480	0160-7333
C115	0160-7333	6	1	CAP-FXD 0.068uF +-10% 50 V CER X7R	28480	0160-7333
C116	0160-7333	6	1	CAP-FXD 0.068uF +-10% 50 V CER X7R	28480	0160-7333

[Refer to Section 7 for update information.

*Factory Selected Component (Refer to Section 5).

Δ Errata part change.

Table 1-1. Replaceable Parts

Reference Designation	HP Part Number	C D	Qty.	Description	Mfr. Code	Mfr. Part Number
C117	0160-7333	6	1	CAP-FXD 0.068uF +-10% 50 V CER X7R	28480	0160-7333
C118	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C119	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C120	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C121	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C122	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C123	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C124	0160-7333	6	1	CAP-FXD 0.068uF +-10% 50 V CER X7R	28480	0160-7333
C125	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C126	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C127	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C128	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C129				NOT ASSIGNED		
C130	0160-7168	5	1	CAP-FXD 0.47pF +-21.3% 100 V CER C0G	09939	GRM40C0GR47B100A
C131	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C132	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C133	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C134	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C135	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C136	0160-5972	5	1	CAP-FXD 5.6pF +-8.93% 50 V CER C0G	09939	GRM40-001C0G5R6D050C
C137	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C138	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C139	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C140	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C141	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C142	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C143	0160-6734	9	1	CAP-FXD 0.047uF +-10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C144	0160-6222	0	1	CAP-FXD 0.1uF +-10% 50 V CER X7R	09939	GRM42-2X7R104K050V
C145	0160-6222	0	1	CAP-FXD 0.1uF +-10% 50 V CER X7R	09939	GRM42-2X7R104K050V
C146	0160-6222	0	1	CAP-FXD 0.1uF +-10% 50 V CER X7R	09939	GRM42-2X7R104K050V
CR1	1901-1227	8	1	DIODE-SWITCHING 75V 200MA 6NS TO-236	28480	1901-1227
CR2	1901-1227	8	1	DIODE-SWITCHING 75V 200MA 6NS TO-236	28480	1901-1227
CR3	1900-0074	9	1	DIODE-SCHOTTKY SM SIG	28480	1900-0074
CR4 - CR5				NOT ASSIGNED		
CR6	1900-0074	9	1	DIODE-SCHOTTKY SM SIG	28480	1900-0074
CR7	1900-0074	9	1	DIODE-SCHOTTKY SM SIG	28480	1900-0074
CR8	1901-1227	8	1	DIODE-SWITCHING 75V 200MA 6NS TO-236	28480	1901-1227
CR9	1901-1227	8	1	DIODE-SWITCHING 75V 200MA 6NS TO-236	28480	1901-1227
CR10	1900-0074	9	1	DIODE-SCHOTTKY SM SIG	28480	1900-0074
FL1	9135-0214	4	1	FILTER-HIGH PASS PIN STYLE-TERMS	01380	842472-1
FL2	9135-0214	4	1	FILTER-HIGH PASS PIN STYLE-TERMS	01380	842472-1
FL3	9135-0214	4	1	FILTER-HIGH PASS PIN STYLE-TERMS	01380	842472-1
FL4	9135-0214	4	1	FILTER-HIGH PASS PIN STYLE-TERMS	01380	842472-1
FL5	9135-0214	4	1	FILTER-HIGH PASS PIN STYLE-TERMS	01380	842472-1
FL6	9135-0214	4	1	FILTER-HIGH PASS PIN STYLE-TERMS	01380	842472-1
FL7	9135-0214	4	1	FILTER-HIGH PASS PIN STYLE-TERMS	01380	842472-1
FL8	9135-0214	4	1	FILTER-HIGH PASS PIN STYLE-TERMS	01380	842472-1
FL9	9135-0214	4	1	FILTER-HIGH PASS PIN STYLE-TERMS	01380	842472-1
J1	1251-8105	6	1	CONN-POST TYPE .100-PIN-SPCG 16-CONT	28480	1251-8105
J2	1250-2091	5	1	CONNECTOR-RF SMA RCPT SGL-HOLE-RR 50-OHM	28480	1250-2091
J3	1250-1512	3	1	CONNECTOR-RF SMB PLUG PC-W-STDFS 50-OHM	28480	1250-1512
J4	1250-1512	3	1	CONNECTOR-RF SMB PLUG PC-W-STDFS 50-OHM	28480	1250-1512
J5	1250-2090	4	1	CONNECTOR-RF SMC PLUG PC-W-STDFS 50-OHM	28480	1250-2090

[Refer to Section 7 for update information.]

*Factory Selected Component (Refer to Section 5).

Δ Errata part change

Table 1-1. Replaceable Parts

Reference Designation	HP Part Number	C D	Qty.	Description	Mfr. Code	Mfr. Part Number
J6	1250-2090	4	1	CONNECTOR-RF SMC PLUG PC-W-STDFS 50-OHM	28480	1250-2090
J7	1250-2090	4	1	CONNECTOR-RF SMC PLUG PC-W-STDFS 50-OHM	28480	1250-2090
J8	1250-2090	4	1	CONNECTOR-RF SMC PLUG PC-W-STDFS 50-OHM	28480	1250-2090
J9	1250-1512	3	1	CONNECTOR-RF SMB PLUG PC-W-STDFS 50-OHM	28480	1250-1512
K1	0490-1653	0	1	RELAY 2C 12VDC-COIL 1A 28VDC	02501	432YZ-7486
K2	0490-1653	0	1	RELAY 2C 12VDC-COIL 1A 28VDC	02501	432YZ-7486
K3	0490-1653	0	1	RELAY 2C 12VDC-COIL 1A 28VDC	02501	432YZ-7486
K4	0490-1653	0	1	RELAY 2C 12VDC-COIL 1A 28VDC	02501	432YZ-7486
K5	0490-1653	0	1	RELAY 2C 12VDC-COIL 1A 28VDC	02501	432YZ-7486
K6	0490-1653	0	1	RELAY 2C 12VDC-COIL 1A 28VDC	02501	432YZ-7486
K7	0490-1653	0	1	RELAY 2C 12VDC-COIL 1A 28VDC	02501	432YZ-7486
K8	0490-1653	0	1	RELAY 2C 12VDC-COIL 1A 28VDC	02501	432YZ-7486
K9	0490-1549	3	1	RELAY-REED 1C 250MA 150VDC 5VDC-COIL 3VA	04501	2900-0044
K10	0490-1549	3	1	RELAY-REED 1C 250MA 150VDC 5VDC-COIL 3VA	04501	2900-0044
L1 - K3				NOT ASSIGNED		
L4	9140-1195	3	1	INDUCTOR 15NH + -10% 2.8W-MMX3.4LG-MM	03273	SM3-015K
L5 - L6				NOT ASSIGNED		
L7	9100-3922	4	1	INDUCTOR-FIXED Z > 1200 OHMS 120 TO 650	12313	99ZSPA45165
L8 - L9				NOT ASSIGNED		
L10	9100-3922	4	1	INDUCTOR-FIXED Z > 1200 OHMS 120 TO 650	12313	99ZSPA45165
L11	9100-3922	4	1	INDUCTOR-FIXED Z > 1200 OHMS 120 TO 650	12313	99ZSPA45165
L12				NOT ASSIGNED		
L13	9140-1105	5	1	INDUCTOR 1UH + -5% 3.4W-MMX4.8LG-MM Q=50	28480	9140-1105
L14	9100-3922	4	1	INDUCTOR-FIXED Z > 1200 OHMS 120 TO 650	12313	99ZSPA45165
L15	9140-1436	5	1	INDUCTOR 390NH + -5% 2.8W-MMX3.4LG-MM	28480	9140-1436
L16	9140-1425	2	1	INDUCTOR 270nH + -5% 2.8W-mmX3.4LG-mm	28480	9140-1425
L17	9140-1098	5	1	INDUCTOR 150NH + -5% 2.8W-MMX3.4LG-MM	28480	9140-1098
L18	9140-1103	3	1	INDUCTOR 680NH + -5% 2.8W-MMX3.4LG-MM	28480	9140-1103
L19				NOT ASSIGNED		
L20	9140-1105	5	1	INDUCTOR 1UH + -5% 3.4W-MMX4.8LG-MM Q=50	28480	9140-1105
L21	9140-1105	5	1	INDUCTOR 1UH + -5% 3.4W-MMX4.8LG-MM Q=50	28480	9140-1105
L22	9140-1105	5	1	INDUCTOR 1UH + -5% 3.4W-MMX4.8LG-MM Q=50	28480	9140-1105
L23	9140-1105	5	1	INDUCTOR 1UH + -5% 3.4W-MMX4.8LG-MM Q=50	28480	9140-1105
L24	9140-1105	5	1	INDUCTOR 1UH + -5% 3.4W-MMX4.8LG-MM Q=50	28480	9140-1105
L25				NOT ASSIGNED		
L26	9140-1104	4	1	INDUCTOR 820NH + -5% 2.8W-MMX3.4LG-MM	28480	9140-1104
L27	9140-1104	4	1	INDUCTOR 820NH + -5% 2.8W-MMX3.4LG-MM	28480	9140-1104
L28	9140-1104	4	1	INDUCTOR 820NH + -5% 2.8W-MMX3.4LG-MM	28480	9140-1104
L29	9140-1104	4	1	INDUCTOR 820NH + -5% 2.8W-MMX3.4LG-MM	28480	9140-1104
L30 - L32				NOT ASSIGNED		
L33	9140-1104	4	1	INDUCTOR 820NH + -5% 2.8W-MMX3.4LG-MM	28480	9140-1104
L34				NOT ASSIGNED		
L35	9140-1199	7	1	INDUCTOR 27NH + -10% 2.8W-MMX3.4LG-MM	03273	SM3-027K
L36	9140-1199	7	1	INDUCTOR 27NH + -10% 2.8W-MMX3.4LG-MM	03273	SM3-027K
L37	9140-1104	4	1	INDUCTOR 820NH + -5% 2.8W-MMX3.4LG-MM	28480	9140-1104
MP1	70425-20108	7	1		28480	70425-20108
MP2	7121-4611	2	1	LABEL-INFORMATION .15-IN-WD .6-IN-LG	09002	
MP3	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP4	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP5	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP6	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP7	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP8	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP9	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP10	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5

†Refer to Section 7 for update information.

*Factory Selected Component (Refer to Section 5).

Δ Errata part change.

Table 1-1. Replaceable Parts

Reference Designation	HP Part Number	C D	Qty.	Description	Mfr. Code	Mfr. Part Number
MP11	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP12	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP13	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP14	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP15	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP16	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP17	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP18	1251-1998	1	1	CONNECTOR-SGL CONT SKT .025-IN-BSC-SZ	01380	3-331272-5
MP19	1251-5595	2	1	POLARIZING KEY-POST CONN	04726	3518
MP20	1251-5595	2	1	POLARIZING KEY-POST CONN	04726	3518
Q1	1855-0832	0	1	TRANSISTOR MOSFET P-CHAN E-MODE SI	28480	1855-0832
Q2	1855-0832	0	1	TRANSISTOR MOSFET P-CHAN E-MODE SI	28480	1855-0832
Q3	1855-0832	0	1	TRANSISTOR MOSFET P-CHAN E-MODE SI	28480	1855-0832
Q4	1855-0832	0	1	TRANSISTOR MOSFET P-CHAN E-MODE SI	28480	1855-0832
Q5	1855-0832	0	1	TRANSISTOR MOSFET P-CHAN E-MODE SI	28480	1855-0832
R1	0699-1415	4	1	RESISTOR 100 \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 100 OHM
R2	0699-1415	4	1	RESISTOR 100 \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 100 OHM
R3	0699-1385	7	1	RESISTOR 5.11K \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 5.11K OHM
R4	0699-1385	7	1	RESISTOR 5.11K \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 5.11K OHM
R5	0699-1385	7	1	RESISTOR 5.11K \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 5.11K OHM
R6	0699-1385	7	1	RESISTOR 5.11K \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 5.11K OHM
R7				NOT ASSIGNED		
R8	0699-1432	5	1	RESISTOR 511 \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 511 OHM
R9	0699-1363	1	1	RESISTOR 61.9 \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 61.9 OHM
R10	0699-1363	1	1	RESISTOR 61.9 \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 61.9 OHM
R11	0699-1425	6	1	RESISTOR 261 \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 261 OHM
R12	0699-1425	6	1	RESISTOR 261 \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 261 OHM
R13	0699-1425	6	1	RESISTOR 261 \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 261 OHM
R14	0699-1391	5	1	RESISTOR 10K \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 10K OHM
R15	0699-1417	6	1	RESISTOR 121 \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 121 OHM
R16	0699-1363	1	1	RESISTOR 61.9 \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 61.9 OHM
R17	0699-1415	4	1	RESISTOR 100 \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 100 OHM
R18	0699-1415	4	1	RESISTOR 100 \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 100 OHM
R19	0699-1415	4	1	RESISTOR 100 \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 100 OHM
R20	0699-1415	4	1	RESISTOR 100 \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 100 OHM
R21	0699-1391	5	1	RESISTOR 10K \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 10K OHM
R22	0699-1417	6	1	RESISTOR 121 \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 121 OHM
R23	0699-1363	1	1	RESISTOR 61.9 \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 61.9 OHM
R24	0699-1415	4	1	RESISTOR 100 \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 100 OHM
R25	0699-1415	4	1	RESISTOR 100 \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 100 OHM
R26	0699-1415	4	1	RESISTOR 100 \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 100 OHM
R27	0699-1415	4	1	RESISTOR 100 \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 100 OHM
R28	0699-1391	5	1	RESISTOR 10K \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 10K OHM
R29 - R34				NOT ASSIGNED		
R35	0699-1355	1	1	RESISTOR 28.7 \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 28.7 OHM
R36	0699-1421	2	1	RESISTOR 178 \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 178 OHM
R37	0699-1421	2	1	RESISTOR 178 \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 178 OHM
R38	0699-1417	6	1	RESISTOR 121 \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 121 OHM
R39	0699-1417	6	1	RESISTOR 121 \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 121 OHM
R40	0699-1417	6	1	RESISTOR 121 \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 121 OHM

†Refer to Section 7 for update information.

*Factory Selected Component (Refer to Section 5).

Δ Errata part change

Table 1-1. Replaceable Parts

Reference Designation	HP Part Number	C D	Qty.	Description	Mfr. Code	Mfr. Part Number
R41	0699-1417	6	1	RESISTOR 121 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 121 OHM
R42	0699-1352	8	1	RESISTOR 21.5 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 21.5 OHM
R43	0699-1352	8	1	RESISTOR 21.5 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 21.5 OHM
R44	0699-1352	8	1	RESISTOR 21.5 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 21.5 OHM
R45	0699-1352	8	1	RESISTOR 21.5 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 21.5 OHM
R46	0699-1352	8	1	RESISTOR 21.5 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 21.5 OHM
R47	0699-1352	8	1	RESISTOR 21.5 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 21.5 OHM
R48	0699-1352	8	1	RESISTOR 21.5 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 21.5 OHM
R49	0699-1352	8	1	RESISTOR 21.5 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 21.5 OHM
R50	0699-1391	5	1	RESISTOR 10K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10K OHM
R51	0699-1352	8	1	RESISTOR 21.5 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 21.5 OHM
R52	0699-1352	8	1	RESISTOR 21.5 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 21.5 OHM
R53	0699-1352	8	1	RESISTOR 21.5 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 21.5 OHM
R54	0699-1352	8	1	RESISTOR 21.5 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 21.5 OHM
R55	0699-1352	8	1	RESISTOR 21.5 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 21.5 OHM
R56	0699-1352	8	1	RESISTOR 21.5 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 21.5 OHM
R57	0699-1352	8	1	RESISTOR 21.5 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 21.5 OHM
R58	0699-1352	8	1	RESISTOR 21.5 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 21.5 OHM
R59	0699-1352	8	1	RESISTOR 21.5 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 21.5 OHM
R60	0699-1352	8	1	RESISTOR 21.5 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 21.5 OHM
R61	0699-1352	8	1	RESISTOR 21.5 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 21.5 OHM
R62	0699-1352	8	1	RESISTOR 21.5 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 21.5 OHM
R63	0699-1352	8	1	RESISTOR 21.5 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 21.5 OHM
R64	0699-1352	8	1	RESISTOR 21.5 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 21.5 OHM
R65	0699-1352	8	1	RESISTOR 21.5 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 21.5 OHM
R66	0699-1352	8	1	RESISTOR 21.5 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 21.5 OHM
R67	0699-1417	6	1	RESISTOR 121 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 121 OHM
R68	0699-1417	6	1	RESISTOR 121 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 121 OHM
R69	0699-1361	9	1	RESISTOR 51.1 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 51.1 OHM
R70	0699-1361	9	1	RESISTOR 51.1 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 51.1 OHM
R71	0699-1417	6	1	RESISTOR 121 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 121 OHM
R72	0699-1417	6	1	RESISTOR 121 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 121 OHM
R73 - R75				NOT ASSIGNED		
R76	0699-1318	6	1	RESISTOR 1K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 1K OHM
R77	0699-1361	9	1	RESISTOR 51.1 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 51.1 OHM
R78	0699-1415	4	1	RESISTOR 100 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 100 OHM
R79	0699-1415	4	1	RESISTOR 100 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 100 OHM
R80 - R81				NOT ASSIGNED		
R82	0699-1361	9	1	RESISTOR 51.1 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 51.1 OHM
R83	0699-1361	9	1	RESISTOR 51.1 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 51.1 OHM
R84	0699-1432	5	1	RESISTOR 511 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 511 OHM
R85	0699-1361	9	1	RESISTOR 51.1 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 51.1 OHM
R86	0699-1327	7	1	RESISTOR 1M $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 1M OHM
R87	0699-1391	5	1	RESISTOR 10K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10K OHM
R88	0699-1410	9	1	RESISTOR 61.9K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 61.9K OHM
R89 - R90				NOT ASSIGNED		
R91	0699-1318	6	1	RESISTOR 1K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 1K OHM
R92	0699-1361	9	1	RESISTOR 51.1 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 51.1 OHM
R93				NOT ASSIGNED		
R94	0699-1381	3	1	RESISTOR 3.48K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 3.48K OHM
R95	0699-1372	2	1	RESISTOR 1.47K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 1.47K OHM
R96 - R120				NOT ASSIGNED		
R121	0699-1361	9	1	RESISTOR 51.1 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 51.1 OHM
R122	0699-1423	4	1	RESISTOR 215 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 215 OHM
R123	0699-1425	6	1	RESISTOR 261 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 261 OHM

{Refer to Section 7 for update information.

*Factory Selected Component (Refer to Section 5).

 Δ Errata part change

Table 1-1. Replaceable Parts

Reference Designation	HP Part Number	C D	Qty.	Description	Mfr. Code	Mfr. Part Number
R124	0699-1352	8	1	RESISTOR 21.5 \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 21.5 OHM
R125	0699-1425	6	1	RESISTOR 261 \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 261 OHM
R126	0699-1350	6	1	RESISTOR 17.8 \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 17.8 OHM
R127	0699-1415	4	1	RESISTOR 100 \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 100 OHM
R128	0699-1427	8	1	RESISTOR 316 \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 316 OHM
R129	0699-1350	6	1	RESISTOR 17.8 \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 17.8 OHM
R130	0699-1415	4	1	RESISTOR 100 \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 100 OHM
R131	0699-1427	8	1	RESISTOR 316 \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 316 OHM
R132	0699-1415	4	1	RESISTOR 100 \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 100 OHM
R133	0699-1415	4	1	RESISTOR 100 \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 100 OHM
R134	0699-1415	4	1	RESISTOR 100 \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 100 OHM
R135	0699-1415	4	1	RESISTOR 100 \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 100 OHM
R136	0699-1415	4	1	RESISTOR 100 \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 100 OHM
R137	0699-1417	6	1	RESISTOR 121 \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 121 OHM
R138	0699-1363	1	1	RESISTOR 61.9 \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 61.9 OHM
R139	0699-1427	8	1	RESISTOR 316 \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 316 OHM
R140	0699-1350	6	1	RESISTOR 17.8 \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 17.8 OHM
R141	0699-1391	5	1	RESISTOR 10K \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 10K OHM
R142	0699-1385	7	1	RESISTOR 5.11K \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 5.11K OHM
R143	0699-1391	5	1	RESISTOR 10K \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 10K OHM
R144	0699-1363	1	1	RESISTOR 61.9 \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 61.9 OHM
R145				NOT ASSIGNED		
R146	0699-1363	1	1	RESISTOR 61.9 \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 61.9 OHM
R147	0699-1363	1	1	RESISTOR 61.9 \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 61.9 OHM
R148	0699-1363	1	1	RESISTOR 61.9 \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 61.9 OHM
R149	0699-1419	8	1	RESISTOR 147 \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 147 OHM
R150	0699-1358	4	1	RESISTOR 38.3 \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 38.3 OHM
R151	0699-1419	8	1	RESISTOR 147 \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 147 OHM
R152				NOT ASSIGNED		
R153	0699-2489	4	1	RESISTOR 10K \pm 0.1% .125W TF TC = 0 \pm -25	02499	W1206R031002BT
R154	0699-2484	9	1	RESISTOR 50K \pm 0.1% .125W TF TC = 0 \pm -25	02499	W1206R035002BT
R155	0699-2484	9	1	RESISTOR 50K \pm 0.1% .125W TF TC = 0 \pm -25	02499	W1206R035002BT
R156	0699-2489	4	1	RESISTOR 10K \pm 0.1% .125W TF TC = 0 \pm -25	02499	W1206R031002BT
R157	0699-1363	1	1	RESISTOR 61.9 \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 61.9 OHM
R158	0699-1391	5	1	RESISTOR 10K \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 10K OHM
TP1	0360-0535	0	1	CONNECTOR-SGL CONT TML-TS-PT	13296	
U2	1813-0318	9	1	IC RF/IF AMPL WB TO-12	03291	GPD-410
U3	1813-0319	0	1	IC RF/IF AMPL WB TO-12	03291	GPD-420
U4	1813-0319	0	1	IC RF/IF AMPL WB TO-12	03291	GPD-420
U5	1813-0385	0	1	IC RF/IF AMPL WB TO-39	03291	GPD-430
U6				NOT ASSIGNED		
U7	1813-0385	0	1	IC RF/IF AMPL WB TO-39	03291	GPD-430
U8	1813-0385	0	1	IC RF/IF AMPL WB TO-39	03291	GPD-430
U9				NOT ASSIGNED		
U10	1826-2147	3	1	ANALOG MULTIPLEXER 8 CHNL 16 -P-SOIC	28480	1826-2147
U11				NOT ASSIGNED		
U12	1826-2081	4	1	IC OP AMP WB 8 PIN DIP-P	11604	CLC404AJP
U13	1826-1644	3	1	IC OP AMP LOW-NOISE DUAL 8 PIN	28480	1826-1644
U14				NOT ASSIGNED		
U15	1826-1189	1	1	PEAK DETECTOR 14 -DIP-P	28480	1826-1189
U16	1820-6752	2	1	IC-ASIC GT-ARY CMOS 6206 PLCC	28480	1820-6752
U17 - U18				NOT ASSIGNED		
U19	1858-0104	5	1	IC-INTERFACE DRVR BIPOLAR PERIPHERAL	28480	1858-0104
U20	1858-0104	5	1	IC-INTERFACE DRVR BIPOLAR PERIPHERAL	28480	1858-0104
U21	1826-1528	2	1	IC COMPARATOR LP QUAD 14 PIN PLSTC-SOIC	28480	1826-1528
U22 - U23				NOT ASSIGNED		

†Refer to Section 7 for update information.

*Factory Selected Component (Refer to Section 5)

Δ Errata part change.

Table 1-1. Replaceable Parts

Reference Designation	HP Part Number	C D	Qty.	Description	Mfr. Code	Mfr. Part Number
U24	1813-0319	0	1	IC RF/IF AMPL WB TO-12	03291	GPD-420
U25	1826-2592	2	1	D/A 12-BIT 8-P-SOIC BICMOS	28480	1826-2592
U26	1826-2146	2	1	IC OP AMP PRON SINGLE 8 PIN PLSTC-SOIC	28480	1826-2146
U27	1826-1687	4	1	IC V RGLTR-V-REF-FXD 9.95/10.05V	28480	1826-1687
Z1	0955-0657	8	1	U-WAVE POWER SPLITTER 2 GHZ MAX	02739	MSC-2-11
Z2	0955-0657	8	1	U-WAVE POWER SPLITTER 2 GHZ MAX	02739	MSC-2-11

†Refer to Section 7 for update information.

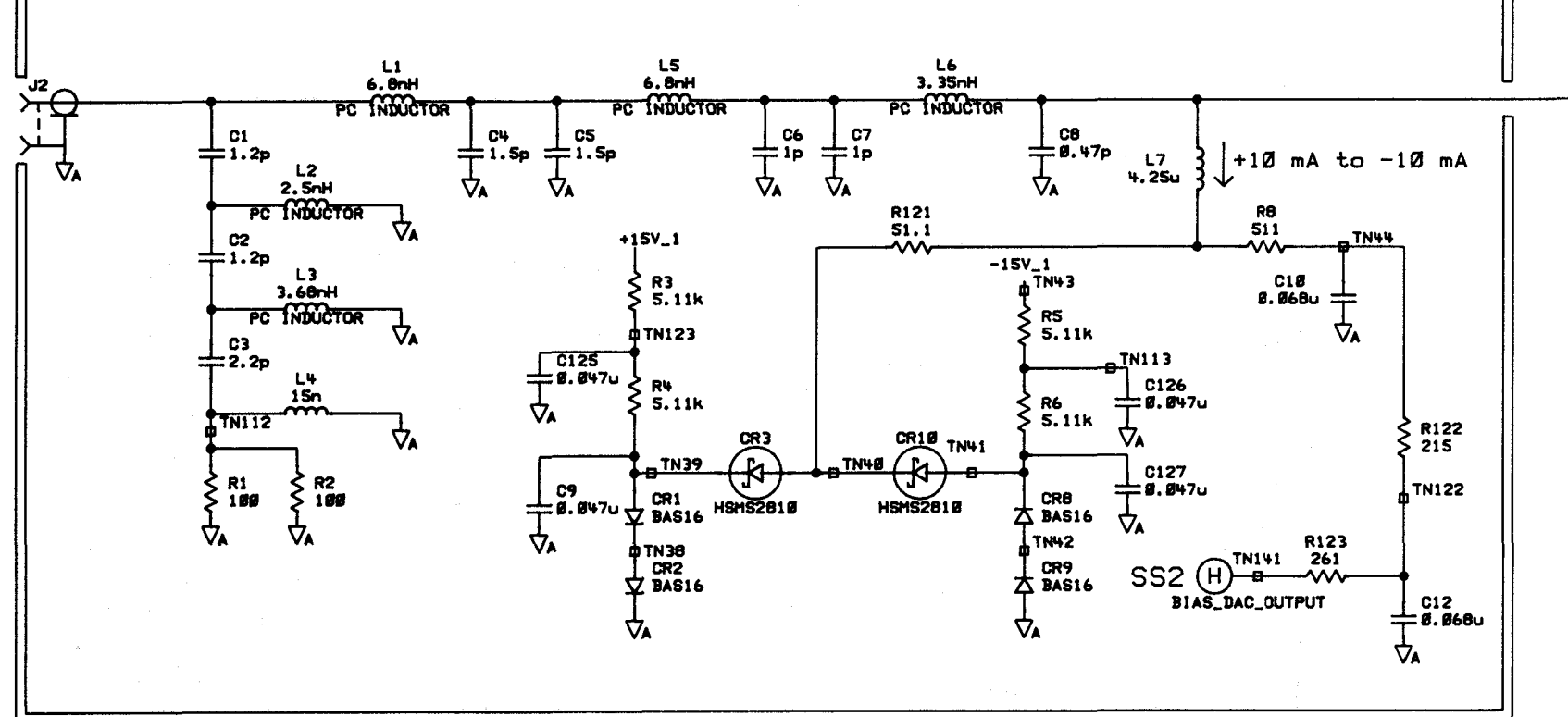
*Factory Selected Component (Refer to Section 5)

Δ Errata part change

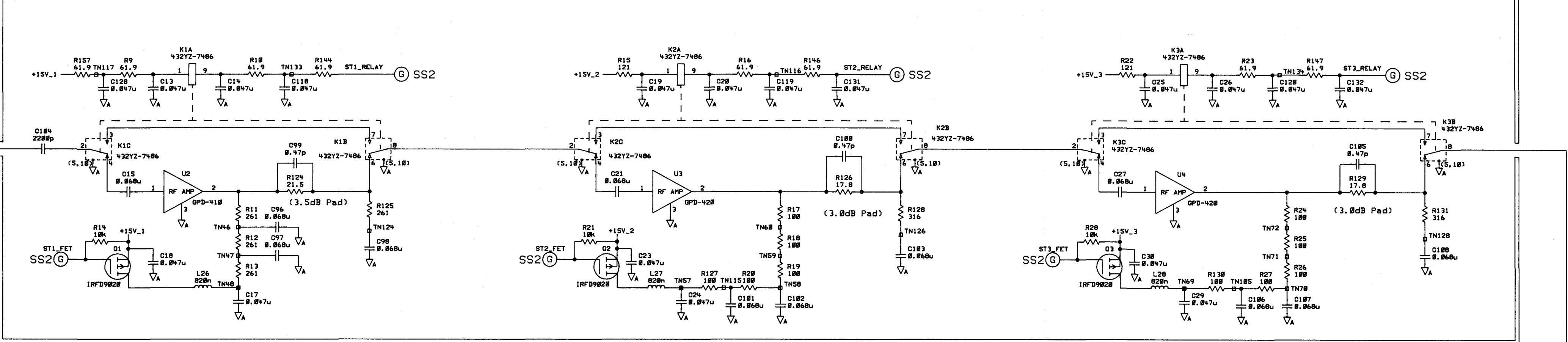
B-102192-10		D-70425-60108-1	
SYM	REVISIONS	APPROVED	DATE
A	AS ISSUED WITH CHG'S	FAULKNER/RISA/AB	8/13/92
B	CHG'D PER PCO 107360	T.RISA/AB	10/23/92

PCB REV A-3202-10

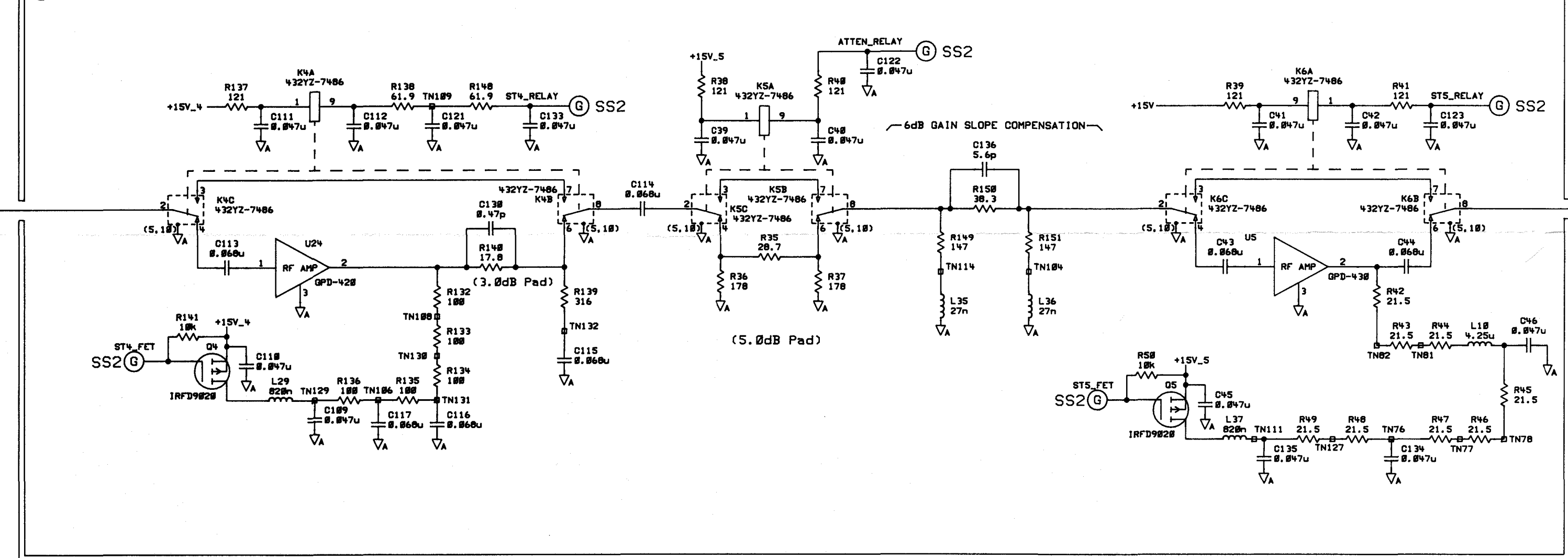
① 1500 MHz DIPLEXER/LOWPASS FILTER



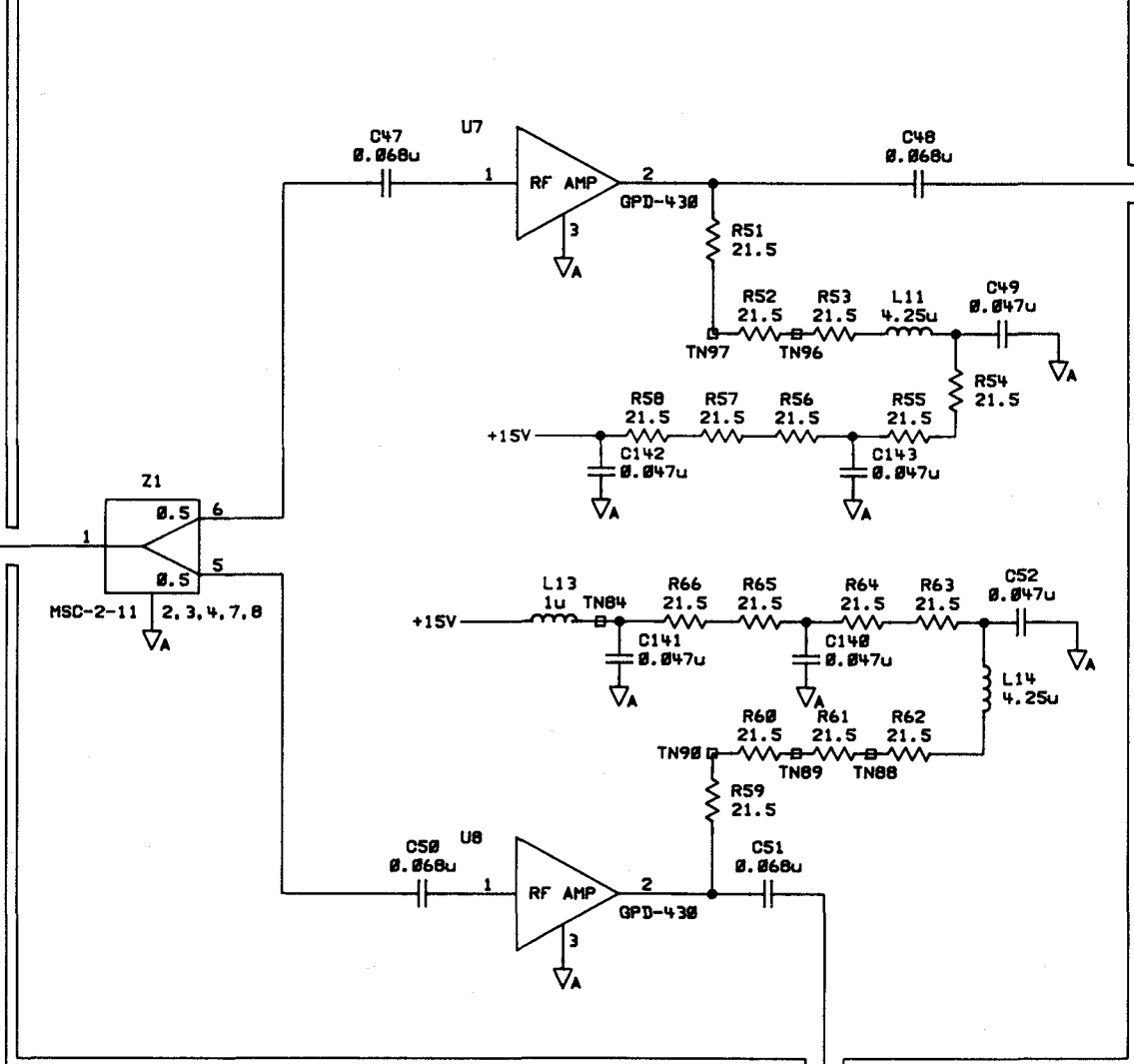
② 5-1500 MHz IF AMPLIFIER



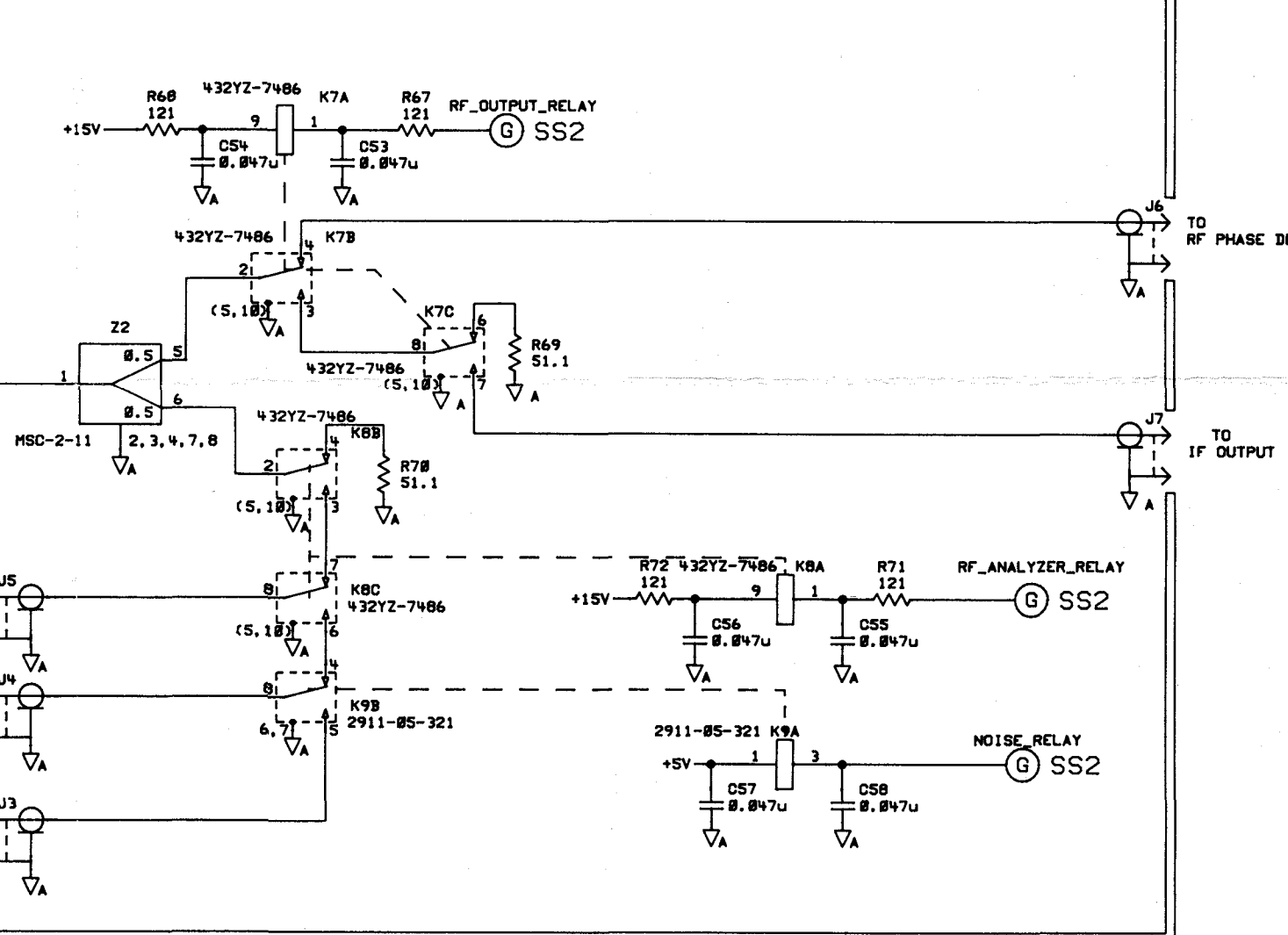
③ 5-1500 MHz IF AMPLIFIER



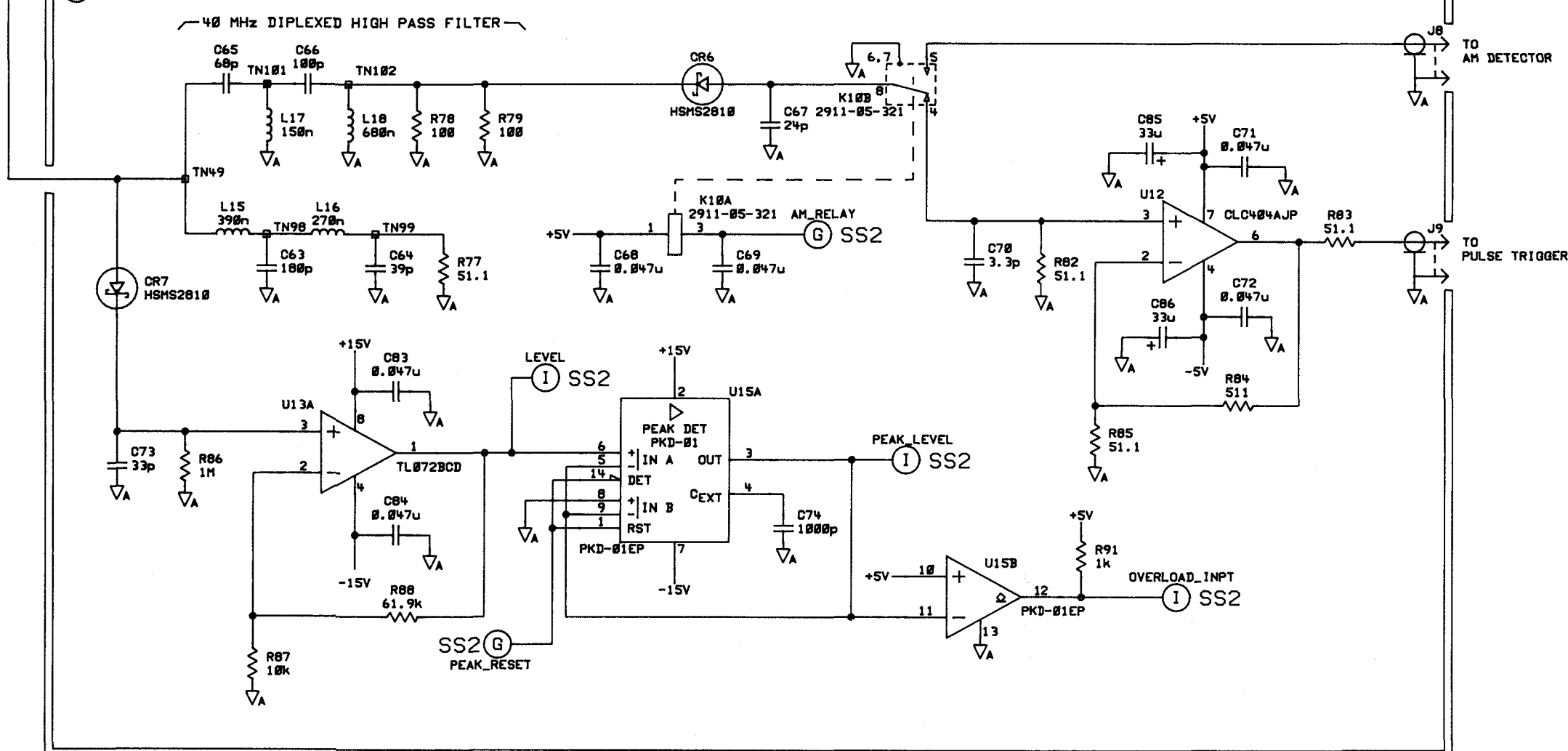
④ IF OUTPUT AMPLIFIERS



⑤ IF OUTPUT SWITCHING



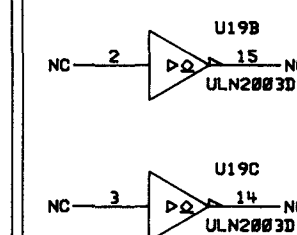
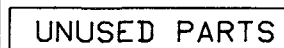
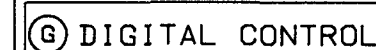
⑥ AM/LEVEL/TRIGGER DETECTORS




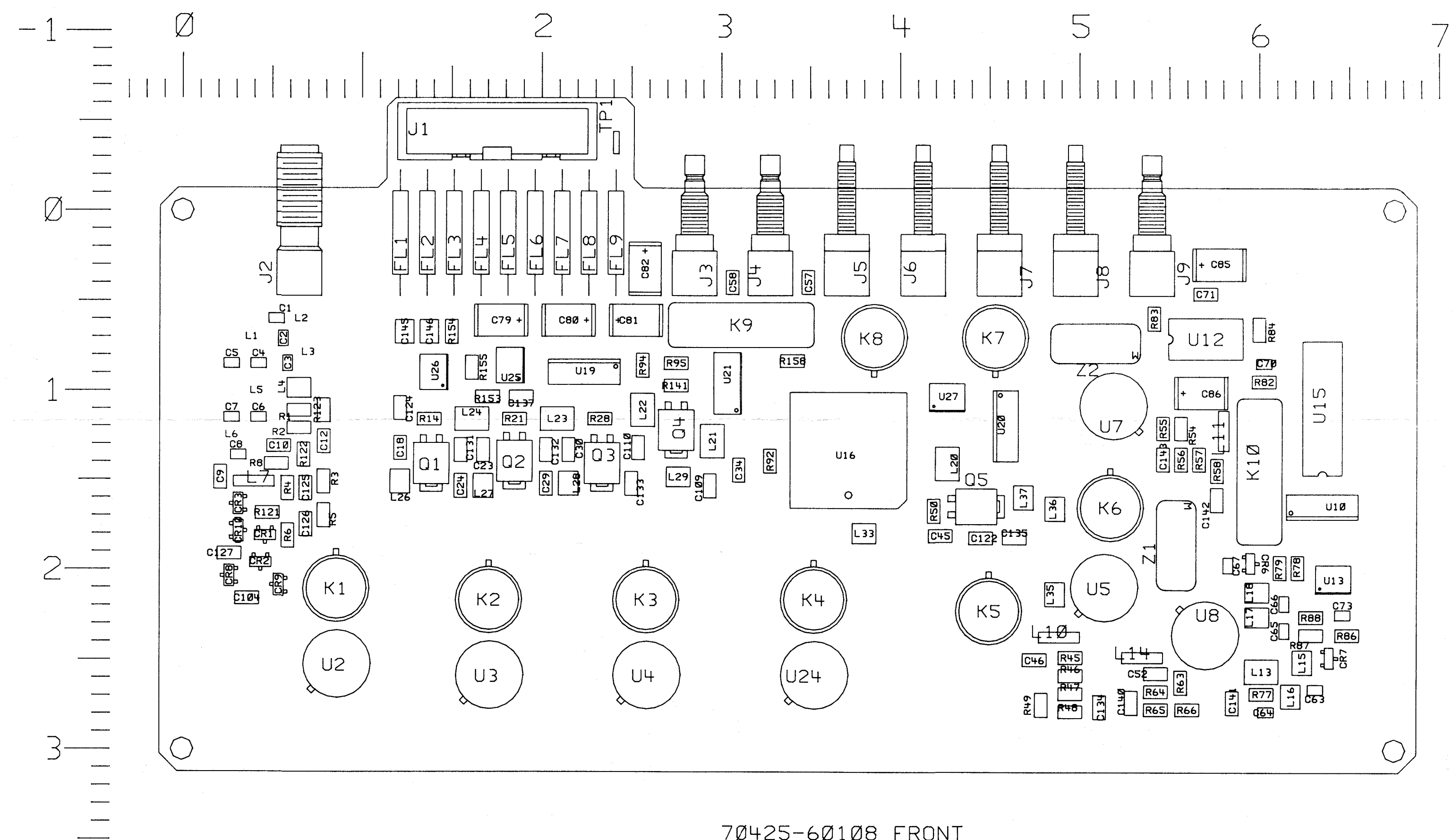
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DRAWN BY T. FAULKNER ENGINEER/CHECKER	12MAR90 DATE	SCHEMATIC, PWA	tsbby108 FILENAME
TAMMY RISA RELEASE TO PROD.	12MAR90 DATE	1-1500 MHz IF AMPLIFIER	SCALE NONE
SUPERSEDES DWG.	8/10/92 DATE	TITLE	70425-60108 PART NUMBER
			SHEET 1 OF 2



PCB REV A-3202-10

s2bby108		 HEWLETT PACKARD
FILENAME		
SCALE NONE		
SHEET 2	OF 2	70425-60108
		PART NUMBER
D-70425-60108-1		



Component-Level Information Packet for 70425-60106

A8/A9 YTF Driver – GaAs Fet Amp Driver



HP Part No. 70425-61810
Printed in USA September 1995

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Changes to 70425-60106 — September 1995

Page 1-1

Change A3 to 70225-61810

Change c28 to 0180-3334

Page 1-2

Change MP3 and MP4 to 0151-0368 M2.5 X 0.5

Delete MP5 and MP6

Page 1-3

Change MP11 and MP12 to 2190-0583

Change MP13 and MP14 to 0535-0008

Page 1-5

Change L15 to 9140-1959

Table 1-1. Replaceable Parts

Reference Designation	HP Part Number	C D	Qty.	Description	Mfr. Code	Mfr. Part Number
A9						
A9	70425-60106	9	1	BD AY-YIG	28480	70425-60106
C1	0180-3755	0	1	CAP-FXD 33uF + -20% 10 V TA	00039	NRD336M10R12
C2	0180-4116	9	1	CAP-FXD 22uF + -20% 20 V TA	00039	NRD226M20R12
C3	0180-4116	9	1	CAP-FXD 22uF + -20% 20 V TA	00039	NRD226M20R12
C4	0180-3755	0	1	CAP-FXD 33uF + -20% 10 V TA	00039	NRD336M10R12
C5	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C6	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C7	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C8	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C9	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C10	0160-6222	0	1	CAP-FXD 0.1uF + -10% 50 V CER X7R	09939	GRM42-2X7R104K050V
C11	0160-6222	0	1	CAP-FXD 0.1uF + -10% 50 V CER X7R	09939	GRM42-2X7R104K050V
C12	0160-6222	0	1	CAP-FXD 0.1uF + -10% 50 V CER X7R	09939	GRM42-2X7R104K050V
C13	0160-6222	0	1	CAP-FXD 0.1uF + -10% 50 V CER X7R	09939	GRM42-2X7R104K050V
C14	0160-6222	0	1	CAP-FXD 0.1uF + -10% 50 V CER X7R	09939	GRM42-2X7R104K050V
C15	0180-3754	9	1	CAP-FXD 10uF + -20% 25 V TA	00039	NRD106M25P12
C16	0180-3754	9	1	CAP-FXD 10uF + -20% 25 V TA	00039	NRD106M25P12
C17	0160-6627	9	1	CAP-FXD 1uF + -5% 63 V POLYE-MET	28480	0160-6627
C18	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C19	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C20	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C21	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C22	0160-5967	8	1	CAP-FXD 100pF + -5% 50 V CER C0G	09939	GRM40-001C0G101J050C
C23	0160-6096	6	1	CAP-FXD 470pF + -5% 50 V CER C0G	09939	GRM42-602C0G471J050C
C24	0160-7120	9	1	CAP-FXD 0.47uF + -10% 100 V POLYE-MET	28480	0160-7120
C25	0180-3421	7	1	CAP-FXD 100uF + -20% 100 V AL-ELCTLT	08709	ECEB2AG101S
C26	0160-3563	6	1	CAP-FXD 10uF + -5% 50 V POLYC-MET	13171	
C27				NOT ASSIGNED		
C28	0180-4302	5	1	CAP-FXD 100uF + -20% 50 V AL-ELCTLT	28480	0180-4302
C29	0160-6627	9	1	CAP-FXD 1uF + -5% 63 V POLYE-MET	28480	0160-6627
C30	0160-6222	0	1	CAP-FXD 0.1uF + -10% 50 V CER X7R	09939	GRM42-2X7R104K050V
C31	0160-6222	0	1	CAP-FXD 0.1uF + -10% 50 V CER X7R	09939	GRM42-2X7R104K050V
C32	0180-3754	9	1	CAP-FXD 10uF + -20% 25 V TA	00039	NRD106M25P12
C33	0180-4274	0	1	CAP-FXD 4.7uF + -20% 50 V TA	28480	0180-4274
C34	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C35	0180-3421	7	1	CAP-FXD 100uF + -20% 100 V AL-ELCTLT	08709	ECEB2AG101S
C36	0180-3421	7	1	CAP-FXD 100uF + -20% 100 V AL-ELCTLT	08709	ECEB2AG101S
C37	0160-5959	8	1	CAP-FXD 33pF + -5% 50 V CER C0G	09939	GRM40-001C0G330J050C
C38	0160-5959	8	1	CAP-FXD 33pF + -5% 50 V CER C0G	09939	GRM40-001C0G330J050C
C39	0160-5959	8	1	CAP-FXD 33pF + -5% 50 V CER C0G	09939	GRM40-001C0G330J050C
C40	0160-5959	8	1	CAP-FXD 33pF + -5% 50 V CER C0G	09939	GRM40-001C0G330J050C
C41	0160-6222	0	1	CAP-FXD 0.1uF + -10% 50 V CER X7R	09939	GRM42-2X7R104K050V
C42	0160-6222	0	1	CAP-FXD 0.1uF + -10% 50 V CER X7R	09939	GRM42-2X7R104K050V
C43	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C44	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C45	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C46	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C47 - C50				NOT ASSIGNED		
C51	0180-4116	9	1	CAP-FXD 22uF + -20% 20 V TA	00039	NRD226M20R12
C52	0180-3751	6	1	CAP-FXD 1uF + -20% 35 V TA	00039	NRS105M35R8
C53	0160-6736	1	1	CAP-FXD 0.01uF + -10% 50 V CER X7R	09939	GRM42-602X7R103K050C
C54				NOT ASSIGNED		
C55	0160-6734	9	1	CAP-FXD 0.047uF + -10% 50 V CER X7R	09939	GRM42-6X7R473K050C
C56	0160-7333	6	1	CAP-FXD 0.068uF + -10% 50 V CER X7R	28480	0160-7333
C57	0160-7308	5	1	CAP-FXD 3.3uF + -10% 50 V POLYE-MET	11892	MMK5335K50
C58	0160-7308	5	1	CAP-FXD 3.3uF + -10% 50 V POLYE-MET	11892	MMK5335K50

†Refer to Section 7 for update information

*Factory Selected Component (Refer to Section 5)

Δ Errata part change

Table 1-1. Replaceable Parts

Reference Designation	HP Part Number	C D	Qty.	Description	Mfr. Code	Mfr. Part Number
C59	0160-7308	5	1	CAP-FXD 3.3uF +-10% 50 V POLYE-MET	11892	MMK5335K50
CR1 - C3				NOT ASSIGNED		
CR4	1901-1227	8	1	DIODE-SWITCHING 75V 200MA 6NS TO-236	28480	1901-1227
CR5	1901-1227	8	1	DIODE-SWITCHING 75V 200MA 6NS TO-236	28480	1901-1227
CR6	1901-0880	7	1	DIODE-GEN PRP 200MA DO-35	28480	1901-0880
CR7	1901-0731	7	1	DIODE-PWR RECT 400V 1A	06650	
CR8	1901-1227	8	1	DIODE-SWITCHING 75V 200MA 6NS TO-236	28480	1901-1227
CR9				NOT ASSIGNED		
CR10	1901-1227	8	1	DIODE-SWITCHING 75V 200MA 6NS TO-236	28480	1901-1227
CR11	1901-1227	8	1	DIODE-SWITCHING 75V 200MA 6NS TO-236	28480	1901-1227
CR12	1901-1227	8	1	DIODE-SWITCHING 75V 200MA 6NS TO-236	28480	1901-1227
CR13	1901-1227	8	1	DIODE-SWITCHING 75V 200MA 6NS TO-236	28480	1901-1227
CR14	1901-1227	8	1	DIODE-SWITCHING 75V 200MA 6NS TO-236	28480	1901-1227
CR15	1901-1227	8	1	DIODE-SWITCHING 75V 200MA 6NS TO-236	28480	1901-1227
CR16	1901-1227	8	1	DIODE-SWITCHING 75V 200MA 6NS TO-236	28480	1901-1227
CR17	1901-1227	8	1	DIODE-SWITCHING 75V 200MA 6NS TO-236	28480	1901-1227
J1	1251-8158	9	1	CONN-POST TYPE .100-PIN-SPCG 40-CONT	28480	1251-8158
J2	1250-0543	8	1	CONNECTOR-RF SMB PLUG PC-W-STDFS 50-OHM	07247	59S21340TD3
J3	1251-8332	1	1	CONN-POST TYPE .100-PIN-SPCG 14-CONT	28480	1251-8332
J4	1252-2235	3	1	CONN-POST TYPE .100-PIN-SPCG 6-CONT	02946	78207-106
J5	1252-2195	4	1	CONN-POST TYPE .100-PIN-SPCG 4-CONT	02946	78208-104
J6	1251-8600	6	1	CONN-POST TYPE .100-PIN-SPCG 16-CONT	28480	1251-8600
L1	9140-1665	2	1	INDUCTOR 55uH +-5% -5%	12918	5181-0183
L2	9140-1665	2	1	INDUCTOR 55uH +-5% -5%	12918	5181-0183
L3	9140-1665	2	1	INDUCTOR 55uH +-5% -5%	12918	5181-0183
L4	9140-1665	2	1	INDUCTOR 55uH +-5% -5%	12918	5181-0183
L5	9140-1665	2	1	INDUCTOR 55uH +-5% -5%	12918	5181-0183
L6	9140-1665	2	1	INDUCTOR 55uH +-5% -5%	12918	5181-0183
L7	9140-1121	5	1	INDUCTOR 100UH +-5% 3.4W-MMX4.8LG-MM	28480	9140-1121
L8	9100-3922	4	1	INDUCTOR-FIXED Z > 120C OHMS 120 TO 650	12313	99ZSPA45165
L9	9100-3922	4	1	INDUCTOR-FIXED Z > 1200 OHMS 120 TO 650	12313	99ZSPA45165
L10	9100-3922	4	1	INDUCTOR-FIXED Z > 1200 OHMS 120 TO 650	12313	99ZSPA45165
L11	9100-3922	4	1	INDUCTOR-FIXED Z > 1200 OHMS 120 TO 650	12313	99ZSPA45165
L12	9100-3922	4	1	INDUCTOR-FIXED Z > 1200 OHMS 120 TO 650	12313	99ZSPA45165
L13	9100-3922	4	1	INDUCTOR-FIXED Z > 1200 OHMS 120 TO 650	12313	99ZSPA45165
L14	9100-3922	4	1	INDUCTOR-FIXED Z > 1200 OHMS 120 TO 650	12313	99ZSPA45165
L15	9100-3922	4	1	INDUCTOR-FIXED Z > 1200 OHMS 120 TO 650	12313	99ZSPA45165
L16	9100-3922	4	1	INDUCTOR-FIXED Z > 1200 OHMS 120 TO 650	12313	99ZSPA45165
MP1	70425-20106	5	1		28480	70425-20106
MP2	7121-4611	2	1	LABEL-INFORMATION .15-IN-WD .6-IN-LG	09002	
MP3	0515-1084	5	1	SCREW-MACH M3 X 0.5 12MM-LG PAN-HD	05610	
MP4	0515-1084	5	1	SCREW-MACH M3 X 0.5 12MM-LG PAN-HD	05610	
MP5	3050-0891	7	1	WASHER-FL MTLT 3.0 3.3-MM-ID 6.85-MM-OD	06691	
MP6	3050-0891	7	1	WASHER-FL MTLT 3.0 3.3-MM-ID 6.85-MM-OD	06691	
MP7	0340-0933	0	1	INSULATOR-FLG-BSHG PPS BLACK	02608	7721-3PPS
MP8	0340-0933	0	1	INSULATOR-FLG-BSHG PPS BLACK	02608	7721-3PPS
MP9	1205-0054	1	1	HEAT SINK TO-3-CS	05792	UP1-TO-3-B
MP10	0340-0875	9	1	INSULATOR-XSTR THRM-CNDCT	05447	7403-09FR-05

†Refer to Section 7 for update information

*Factory Selected Component (Refer to Section 5)

Δ Errata part change

Table 1-1. Replaceable Parts

Reference Designation	HP Part Number	C D	Qty.	Description	Mfr. Code	Mfr. Part Number
MP11	2190-0584	0	1	WASHER-LK HLCL 3.0 3.1-MM-ID 6.2-MM-OD	06691	
MP12	2190-0584	0	1	WASHER-LK HLCL 3.0 3.1-MM-ID 6.2-MM-OD	06691	
MP13	0535-0004	9	1	NUT-HEX DBL-CHAM M3 X 0.5 2.9MM-THK	06691	
MP14	0535-0004	9	1	NUT-HEX DBL-CHAM M3 X 0.5 2.9MM-THK	06691	
MP15	0590-1076	3	1	THREADED INSERT-NUT M3 X 0.5 1.5-MM-LG	03981	KFS2-M3
MP16	0590-1076	3	1	THREADED INSERT-NUT M3 X 0.5 1.5-MM-LG	03981	KFS2-M3
MP17	1251-5595	2	1	POLARIZING KEY-POST CONN	04726	3518
MP18	1251-5595	2	1	POLARIZING KEY-POST CONN	04726	3518
MP19	1251-5595	2	1	POLARIZING KEY-POST CONN	04726	3518
MP20	1251-5595	2	1	POLARIZING KEY-POST CONN	04726	3518
MP21	1251-5595	2	1	POLARIZING KEY-POST CONN	04726	3518
Q1	1854-1270	0	1	TRANSISTOR NPN SI TO-261AA (SOT-223)	28480	1854-1270
Q2	1854-1270	0	1	TRANSISTOR NPN SI TO-261AA (SOT-223)	28480	1854-1270
Q3	1854-1270	0	1	TRANSISTOR NPN SI TO-261AA (SOT-223)	28480	1854-1270
Q4	1854-1188	9	1	TRANSISTOR NPN SI SOT-23 (TO-236AB)	28480	1854-1188
Q5	1854-1270	0	1	TRANSISTOR NPN SI TO-261AA (SOT-223)	28480	1854-1270
Q6	1854-1188	9	1	TRANSISTOR NPN SI SOT-23 (TO-236AB)	28480	1854-1188
Q7	1855-0672	6	1	TRANSISTOR MOSFET N-CHAN E-MODE TO-3 SI	28480	1855-0672
Q8	1853-0724	5	1	TRANSISTOR PNP SI TO-261AA (SOT-223)	28480	1853-0724
Q9	1854-1270	0	1	TRANSISTOR NPN SI TO-261AA (SOT-223)	28480	1854-1270
Q10	1854-1270	0	1	TRANSISTOR NPN SI TO-261AA (SOT-223)	28480	1854-1270
Q11	1854-1270	0	1	TRANSISTOR NPN SI TO-261AA (SOT-223)	28480	1854-1270
Q12	1854-1270	0	1	TRANSISTOR NPN SI TO-261AA (SOT-223)	28480	1854-1270
Q13	1854-1270	0	1	TRANSISTOR NPN SI TO-261AA (SOT-223)	28480	1854-1270
Q14	1854-1014	0	1	TRANSISTOR NPN SI TO-236AA PD = 350MW	04200	TMPT6429
Q15	1853-0724	5	1	TRANSISTOR PNP SI TO-261AA (SOT-223)	28480	1853-0724
Q16	1854-1270	0	1	TRANSISTOR NPN SI TO-261AA (SOT-223)	28480	1854-1270
Q17	1854-1270	0	1	TRANSISTOR NPN SI TO-261AA (SOT-223)	28480	1854-1270
Q18	1854-1270	0	1	TRANSISTOR NPN SI TO-261AA (SOT-223)	28480	1854-1270
Q19	1854-1270	0	1	TRANSISTOR NPN SI TO-261AA (SOT-223)	28480	1854-1270
Q20	1854-1270	0	1	TRANSISTOR NPN SI TO-261AA (SOT-223)	28480	1854-1270
Q21	1854-1270	0	1	TRANSISTOR NPN SI TO-261AA (SOT-223)	28480	1854-1270
Q22	1854-1188	9	1	TRANSISTOR NPN SI SOT-23 (TO-236AB)	28480	1854-1188
R1	0699-2491	8	1	RESISTOR 20K $\pm 0.1\%$.125W TF TC = 0 \pm -25	02499	W1206R032002BT
R2	0699-2489	4	1	RESISTOR 10K $\pm 0.1\%$.125W TF TC = 0 \pm -25	02499	W1206R031002BT
R3	0699-1385	7	1	RESISTOR 5.11K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 5.11K OHM
R4	0699-1385	7	1	RESISTOR 5.11K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 5.11K OHM
R5	0699-1398	2	1	RESISTOR 21.5K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 21.5K OHM
R6	0699-1396	0	1	RESISTOR 17.8K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 17.8K OHM
R7	0699-1391	5	1	RESISTOR 10K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10K OHM
R8	0699-1389	1	1	RESISTOR 8.25K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 8.25K OHM
R9	0699-2491	8	1	RESISTOR 20K $\pm 0.1\%$.125W TF TC = 0 \pm -25	02499	W1206R032002BT
R10	0699-2489	4	1	RESISTOR 10K $\pm 0.1\%$.125W TF TC = 0 \pm -25	02499	W1206R031002BT
R11	0699-2491	8	1	RESISTOR 20K $\pm 0.1\%$.125W TF TC = 0 \pm -25	02499	W1206R032002BT
R12	0699-1385	7	1	RESISTOR 5.11K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 5.11K OHM
R13	0699-2489	4	1	RESISTOR 10K $\pm 0.1\%$.125W TF TC = 0 \pm -25	02499	W1206R031002BT
R14	0699-1385	7	1	RESISTOR 5.11K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 5.11K OHM
R15	0699-2489	4	1	RESISTOR 10K $\pm 0.1\%$.125W TF TC = 0 \pm -25	02499	W1206R031002BT

†Refer to Section 7 for update information

*Factory Selected Components (Refer to Section 5)

△ Errata part change

Table 1-1. Replaceable Parts

Reference Designation	HP Part Number	C D	Qty.	Description	Mfr. Code	Mfr. Part Number
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R16	0698-0084	9	1	RESISTOR 2.15K $\pm 1\%$.125W TF TC = 0 \pm -100	05524	CMF-55-1
R17	0699-1318	6	1	RESISTOR 1K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 1K OHM
R18	0699-1430	3	1	RESISTOR 422 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 422 OHM
R19 - R22				NOT ASSIGNED		
R23	0699-1371	1	1	RESISTOR 1.33K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 1.33K OHM
R24	2100-3732	7	1	RESISTOR-TRMR 500 10% TKF SIDE-ADJ	04568	67XR
R25	0699-1391	5	1	RESISTOR 10K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10K OHM
R26	0699-1371	1	1	RESISTOR 1.33K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 1.33K OHM
R27	2100-3732	7	1	RESISTOR-TRMR 500 10% TKF SIDE-ADJ	04568	67XR
R28	0699-1371	1	1	RESISTOR 1.33K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 1.33K OHM
R29	2100-3732	7	1	RESISTOR-TRMR 500 10% TKF SIDE-ADJ	04568	67XR
R30	0699-1318	6	1	RESISTOR 1K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 1K OHM
R31	0699-1320	0	1	RESISTOR 19.6K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 19.6K OHM
R32	2100-3732	7	1	RESISTOR-TRMR 500 10% TKF SIDE-ADJ	04568	67XR
R33	2100-3732	7	1	RESISTOR-TRMR 500 10% TKF SIDE-ADJ	04568	67XR
R34	2100-3732	7	1	RESISTOR-TRMR 500 10% TKF SIDE-ADJ	04568	67XR
R35	0699-1371	1	1	RESISTOR 1.33K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 1.33K OHM
R36	0699-1371	1	1	RESISTOR 1.33K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 1.33K OHM
R37	0699-1371	1	1	RESISTOR 1.33K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 1.33K OHM
R38				NOT ASSIGNED		
R39	0699-1415	4	1	RESISTOR 100 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 100 OHM
R40	0699-1432	5	1	RESISTOR 511 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 511 OHM
R41	0699-1430	3	1	RESISTOR 422 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 422 OHM
R42	0699-1432	5	1	RESISTOR 511 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 511 OHM
R43	0757-0442	9	1	RESISTOR 10K $\pm 1\%$.125W TF TC = 0 \pm -100	05524	CMF-55-1
R44	0699-1385	7	1	RESISTOR 5.11K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 5.11K OHM
R45	0699-1385	7	1	RESISTOR 5.11K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 5.11K OHM
R46	0699-1330	2	1	RESISTOR 100K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 100K OHM
R47	0698-7236	7	1	RESISTOR 1K $\pm 1\%$.05W TF TC = 0 \pm -100	05524	CMF-50-2
R48	0698-8958	2	1	RESISTOR 511K $\pm 1\%$.125W TF TC = 0 \pm -100	01074	H8
R49	0698-7212	9	1	RESISTOR 100 $\pm 1\%$.05W TF TC = 0 \pm -100	05524	CMF-50-2
R50	0698-7188	8	1	RESISTOR 10 $\pm 1\%$.05W TF TC = 0 \pm -100	05524	CMF-50-2
R51	0757-0417	8	1	RESISTOR 562 $\pm 1\%$.125W TF TC = 0 \pm -100	05524	CMF-55-1
R52	0699-1391	5	1	RESISTOR 10K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10K OHM
R53	0699-1385	7	1	RESISTOR 5.11K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 5.11K OHM
R54	0699-1370	0	1	RESISTOR 1.21K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 1.21K OHM
R55	0699-1385	7	1	RESISTOR 5.11K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 5.11K OHM
R56	0699-1361	9	1	RESISTOR 51.1 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 51.1 OHM
R57	0699-1391	5	1	RESISTOR 10K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10K OHM
R58				NOT ASSIGNED		
R59	0699-1391	5	1	RESISTOR 10K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10K OHM
R60				NOT ASSIGNED		
R61	0699-1361	9	1	RESISTOR 51.1 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 51.1 OHM
R62	0699-1415	4	1	RESISTOR 100 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 100 OHM
R63 - R67				NOT ASSIGNED		
R68	0699-1361	9	1	RESISTOR 51.1 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 51.1 OHM
R69				NOT ASSIGNED		
R70	0699-1391	5	1	RESISTOR 10K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10K OHM
R71	0699-1361	9	1	RESISTOR 51.1 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 51.1 OHM
R72				NOT ASSIGNED		
R73	0699-1391	5	1	RESISTOR 10K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10K OHM
R74	0699-1361	9	1	RESISTOR 51.1 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 51.1 OHM
R75				NOT ASSIGNED		
R76	0699-1391	5	1	RESISTOR 10K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10K OHM
R77	0699-1361	9	1	RESISTOR 51.1 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 51.1 OHM
R78				NOT ASSIGNED		
R79	0699-1391	5	1	RESISTOR 10K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10K OHM
R80	0699-1361	9	1	RESISTOR 51.1 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 51.1 OHM
R81				NOT ASSIGNED		
R82	0699-1391	5	1	RESISTOR 10K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10K OHM
R83 - R86				NOT ASSIGNED		
R87	0699-1318	6	1	RESISTOR 1K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 1K OHM
R88	0699-1378	8	1	RESISTOR 2.61K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 2.61K OHM
R89	0699-1415	4	1	RESISTOR 100 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 100 OHM
R90	0699-1385	7	1	RESISTOR 5.11K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 5.11K OHM

†Refer to Section 7 for update information

*Factory Selected Component (Refer to Section 5)

Δ Errata part change

Table 1-1. Replaceable Parts

Reference Designation	HP Part Number	C D	Qty.	Description	Mfr. Code	Mfr. Part Number
R91	0699-1415	4	1	RESISTOR 100 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 100 OHM
R92	0699-1391	5	1	RESISTOR 10K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10K OHM
R93	0699-2442	9	1	RESISTOR 2.2 $\pm 5\%$.125W TKF TC = 0 \pm -200	06119	D25 2.2 OHM
R94	0699-2442	9	1	RESISTOR 2.2 $\pm 5\%$.125W TKF TC = 0 \pm -200	06119	D25 2.2 OHM
R95	0699-1361	9	1	RESISTOR 51.1 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 51.1 OHM
R96	0699-2442	9	1	RESISTOR 2.2 $\pm 5\%$.125W TKF TC = 0 \pm -200	06119	D25 2.2 OHM
R97	0699-2442	9	1	RESISTOR 2.2 $\pm 5\%$.125W TKF TC = 0 \pm -200	06119	D25 2.2 OHM
R98	0699-1361	9	1	RESISTOR 51.1 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 51.1 OHM
R99	0699-2442	9	1	RESISTOR 2.2 $\pm 5\%$.125W TKF TC = 0 \pm -200	06119	D25 2.2 OHM
R100	0699-2442	9	1	RESISTOR 2.2 $\pm 5\%$.125W TKF TC = 0 \pm -200	06119	D25 2.2 OHM
R101	0699-1361	9	1	RESISTOR 51.1 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 51.1 OHM
R102	0699-2442	9	1	RESISTOR 2.2 $\pm 5\%$.125W TKF TC = 0 \pm -200	06119	D25 2.2 OHM
R103	0699-2442	9	1	RESISTOR 2.2 $\pm 5\%$.125W TKF TC = 0 \pm -200	06119	D25 2.2 OHM
R104	0699-1361	9	1	RESISTOR 51.1 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 51.1 OHM
R105	0699-2442	9	1	RESISTOR 2.2 $\pm 5\%$.125W TKF TC = 0 \pm -200	06119	D25 2.2 OHM
R106	0699-2442	9	1	RESISTOR 2.2 $\pm 5\%$.125W TKF TC = 0 \pm -200	06119	D25 2.2 OHM
R107	0699-1361	9	1	RESISTOR 51.1 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 51.1 OHM
R108	0699-1361	9	1	RESISTOR 51.1 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 51.1 OHM
R109	0699-2442	9	1	RESISTOR 2.2 $\pm 5\%$.125W TKF TC = 0 \pm -200	06119	D25 2.2 OHM
R110	0699-2442	9	1	RESISTOR 2.2 $\pm 5\%$.125W TKF TC = 0 \pm -200	06119	D25 2.2 OHM
R111	0699-2442	9	1	RESISTOR 2.2 $\pm 5\%$.125W TKF TC = 0 \pm -200	06119	D25 2.2 OHM
R112	0699-1361	9	1	RESISTOR 51.1 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 51.1 OHM
R113	0699-1361	9	1	RESISTOR 51.1 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 51.1 OHM
R114	0699-1391	5	1	RESISTOR 10K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10K OHM
R115	0699-1388	0	1	RESISTOR 7.5K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 7.5K OHM
R116	0699-1374	4	1	RESISTOR 1.78K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 1.78K OHM
R117	0699-1391	5	1	RESISTOR 10K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 10K OHM
R118	0699-1388	0	1	RESISTOR 7.5K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 7.5K OHM
R119	0699-1426	7	1	RESISTOR 287 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 287 OHM
R120	0699-1330	2	1	RESISTOR 100K $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 100K OHM
R121	0699-2442	9	1	RESISTOR 2.2 $\pm 5\%$.125W TKF TC = 0 \pm -200	06119	D25 2.2 OHM
R122	0699-1356	2	1	RESISTOR 31.6 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 31.6 OHM
R123	0699-1356	2	1	RESISTOR 31.6 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 31.6 OHM
R124	0699-1355	1	1	RESISTOR 28.7 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 28.7 OHM
R125	0699-1355	1	1	RESISTOR 28.7 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 28.7 OHM
R126	0699-1353	9	1	RESISTOR 23.7 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 23.7 OHM
R127	0699-1353	9	1	RESISTOR 23.7 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 23.7 OHM
R128	0699-1353	9	1	RESISTOR 23.7 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 23.7 OHM
R129	0699-1353	9	1	RESISTOR 23.7 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 23.7 OHM
R130	0699-1353	9	1	RESISTOR 23.7 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 23.7 OHM
R131	0699-1353	9	1	RESISTOR 23.7 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 23.7 OHM
R132	0699-1353	9	1	RESISTOR 23.7 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 23.7 OHM
R133	0699-1353	9	1	RESISTOR 23.7 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 23.7 OHM
R134	0699-1356	2	1	RESISTOR 31.6 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 31.6 OHM
R135	0699-1356	2	1	RESISTOR 31.6 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 31.6 OHM
R136	0699-1355	1	1	RESISTOR 28.7 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 28.7 OHM
R137	0699-1355	1	1	RESISTOR 28.7 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 28.7 OHM
R138	0699-1362	0	1	RESISTOR 56.2 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 56.2 OHM
R139	0699-1362	0	1	RESISTOR 56.2 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 56.2 OHM
R140	0699-1363	1	1	RESISTOR 61.9 $\pm 1\%$.125W TKF TC = 0 \pm -100	06119	D25 61.9 OHM

†Refer to Section 7 for update information.

*Factory Selected Component (Refer to Section 5).

Δ Errata part change

Table 1-1. Replaceable Parts

Reference Designation	HP Part Number	C D	Qty.	Description	Mfr. Code	Mfr. Part Number
R141	0699-1363	1	1	RESISTOR 61.9 \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 61.9 OHM
R142	0699-1363	1	1	RESISTOR 61.9 \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 61.9 OHM
R143	0699-1363	1	1	RESISTOR 61.9 \pm 1% .125W TKF TC = 0 \pm -100	06119	D25 61.9 OHM
S1	3101-2566	6	1	SWITCH-DIP PKR DPDT 0.05A 30VDC	28480	3101-2566
T1	9140-1672	1	1	INDUCTOR 16mH	12918	5181-6356
TP1	0360-0535	0	1	CONNECTOR-SGL CONT TML-TS-PT	13296	
U1	1820-4279	4	1	IC FF TTL/ALS D-TYPE POS-EDGE-TRIG CLEAR	28480	1820-4279
U2	1820-4279	4	1	IC FF TTL/ALS D-TYPE POS-EDGE-TRIG CLEAR	28480	1820-4279
U3	1820-4279	4	1	IC FF TTL/ALS D-TYPE POS-EDGE-TRIG CLEAR	28480	1820-4279
U4	1820-4251	2	1	IC SCHMITT-TRIG TTL/LS INV HEX	28480	1820-4251
U5	1820-4257	8	1	IC CDCR TTL/ALS BIN 3-TO-8-LINE	28480	1820-4257
U6	1826-1899	0	1	D/A 12-BIT 28-PLCC CMOS	28480	1826-1899
U7	1826-1899	0	1	D/A 12-BIT 28-PLCC CMOS	28480	1826-1899
U8	1826-2146	2	1	IC OP AMP PRCN SINGLE 8 PIN PLSTC-SOIC	28480	1826-2146
U9	1826-2146	2	1	IC OP AMP PRCN SINGLE 8 PIN PLSTC-SOIC	28480	1826-2146
U10	1826-2146	2	1	IC OP AMP PRCN SINGLE 8 PIN PLSTC-SOIC	28480	1826-2146
U11	1826-2146	2	1	IC OP AMP PRCN SINGLE 8 PIN PLSTC-SOIC	28480	1826-2146
U12	1826-2174	6	1	IC V RGLTR-V-REF-ADJ -10/10V 16-CBRZ PKG	28480	1826-2174
U13	1826-2146	2	1	IC OP AMP PRCN SINGLE 8 PIN PLSTC-SOIC	28480	1826-2146
U14	1826-2146	2	1	IC OP AMP PRCN SINGLE 8 PIN PLSTC-SOIC	28480	1826-2146
U15	1826-2146	2	1	IC OP AMP PRCN SINGLE 8 PIN PLSTC-SOIC	28480	1826-2146
U16	1826-2146	2	1	IC OP AMP PRCN SINGLE 8 PIN PLSTC-SOIC	28480	1826-2146
U17	1826-1810	5	1	IC OP AMP LOW-BIAS-HIMPD SINGLE 8 PIN	28480	1826-1810
U18	1826-2147	3	1	ANALOG MULTIPLEXER 8 CHNL 16 -P-SOIC	28480	1826-2147
U19	1826-2147	3	1	ANALOG MULTIPLEXER 8 CHNL 16 -P-SOIC	28480	1826-2147
U20	1826-1862	7	1	IC OP AMP LOW-BIAS-HIMPD DUAL 8 PIN	28480	1826-1862
U21	1826-1985	5	1	ANALOG SWITCH 4 SPST 16 -P-SOIC	28480	1826-1985
U22	1826-2146	2	1	IC OP AMP PRCN SINGLE 8 PIN PLSTC-SOIC	28480	1826-2146
U23				NOT ASSIGNED		
U24	1820-4692	5	1	IC GATE CMOS/HC NAND QUAD 2-INP	28480	1820-4692
U25	1826-1897	8	1	IC MISC SINGLE 8 PIN PLSTC-SOIC	28480	1826-1897
U26	1826-1985	5	1	ANALOG SWITCH 4 SPST 16 -P-SOIC	28480	1826-1985
U27	1826-1925	3	1	IC OP AMP LOW-NOISE SINGLE 8 PIN	28480	1826-1925
U28	1826-2145	1	1	ANALOG SWITCH 4 SPST 16 -P-SOIC	28480	1826-2145
U29	1826-2146	2	1	IC OP AMP PRCN SINGLE 8 PIN PLSTC-SOIC	28480	1826-2146
VR1	1902-0029	8	1	DIODE-ZNR 12V 5% PD = 1W IR = 5UA	02688	
VR2	1902-0955	9	1	DIODE-ZNR 7.5V 5% DO-35 PD = .4W TC = +.062%	02688	

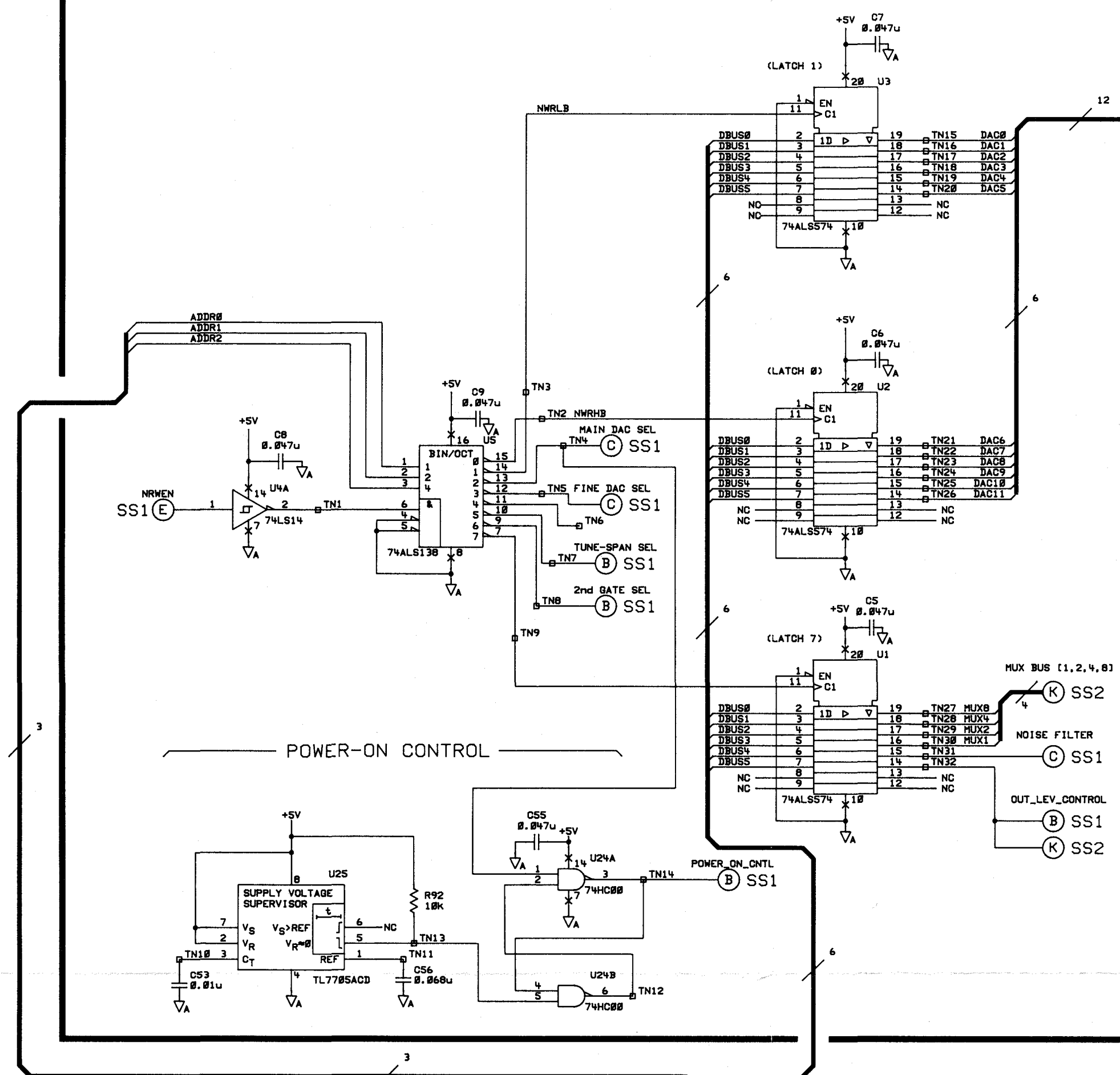
†Refer to Section 7 for update information

*Factory Selected Component (Refer to Section 5)

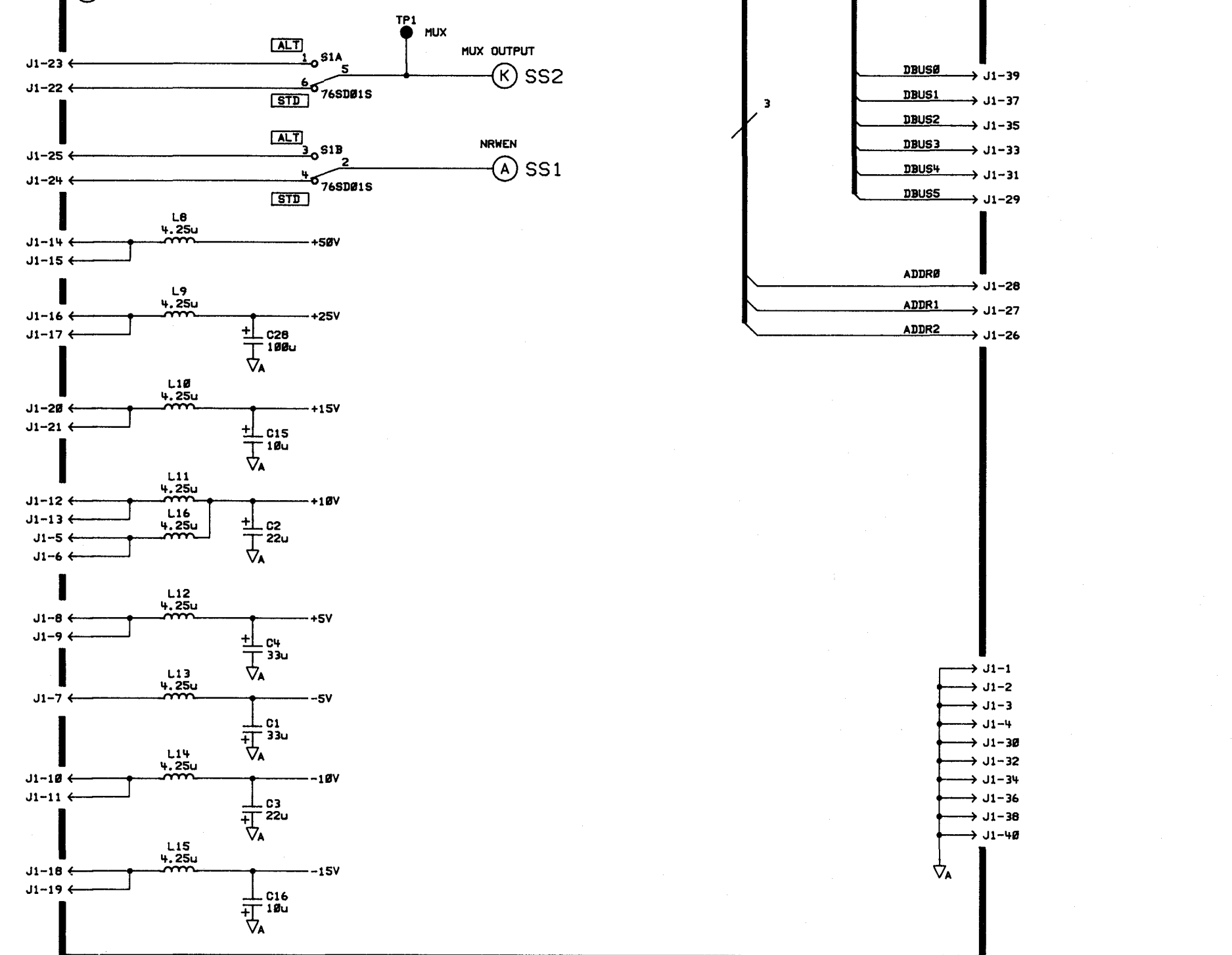
Δ Errata part change

SYM	REVISIONS	APPROVED	DATE
A	AS ISSUED WITH CHG'S	FAULKNER/RISA/AB	8/13/92
B	CHG'D PER PCO 107360	T.RISA/AB	10/23/92

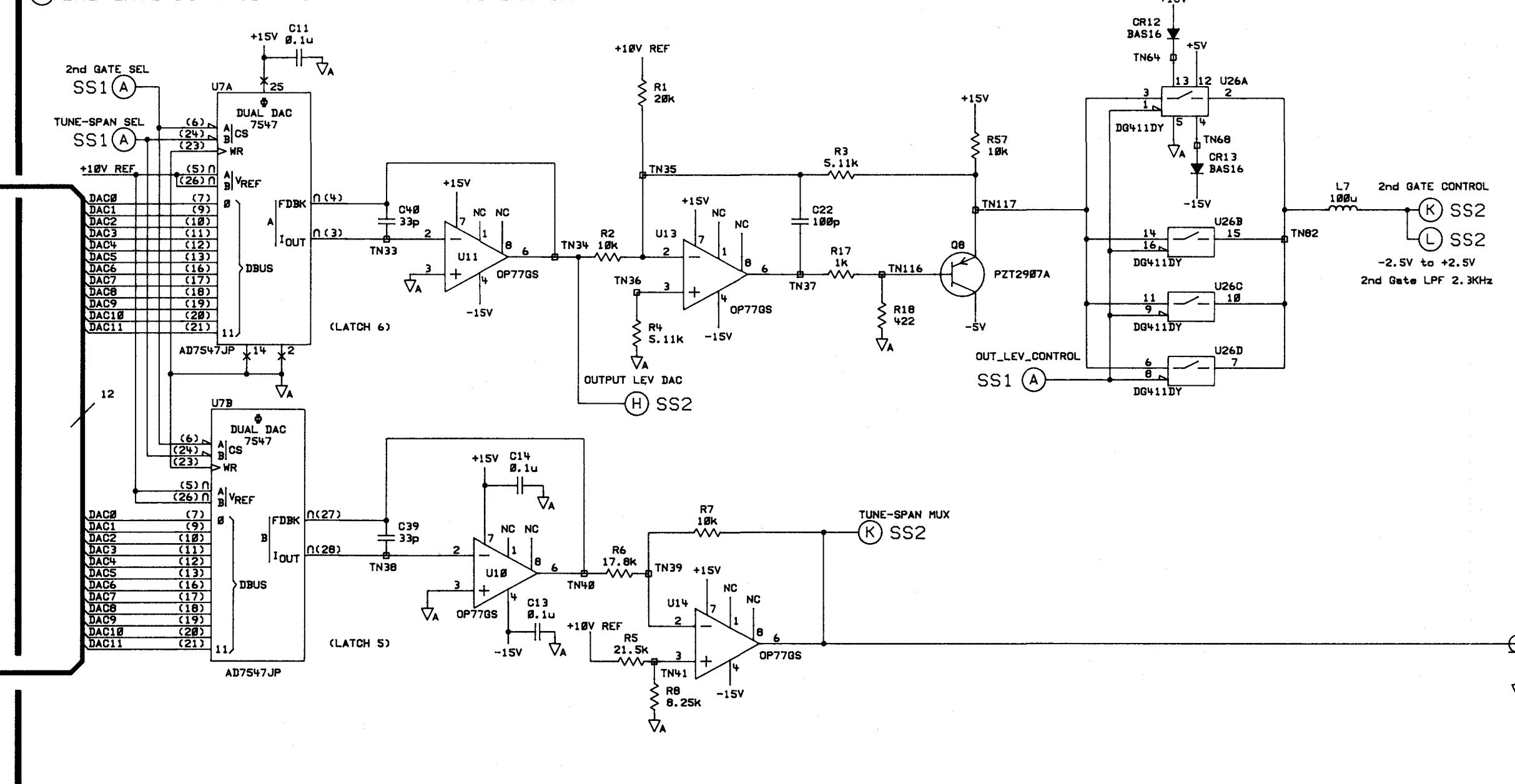
A DIGITAL CONTROL



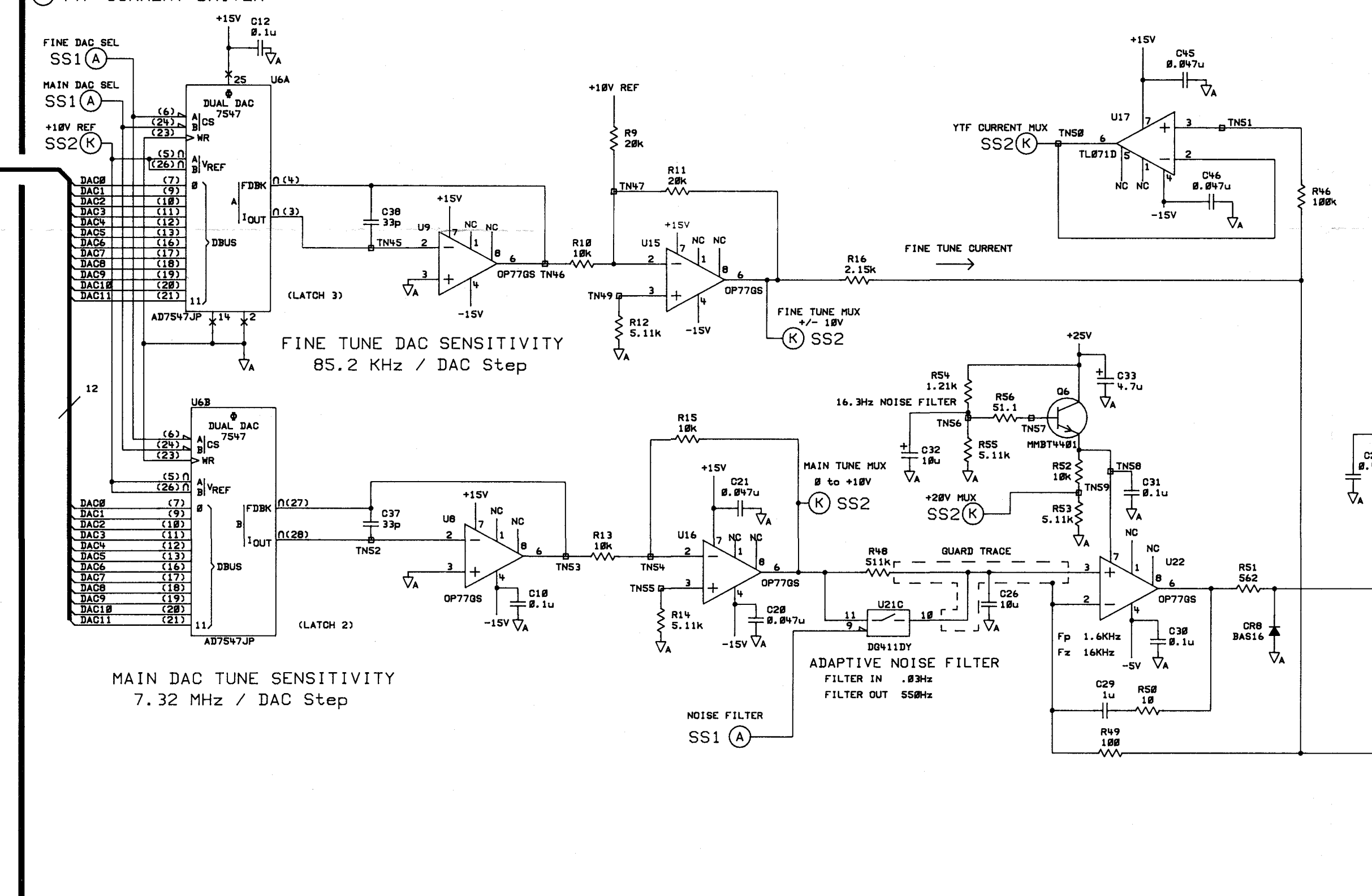
E POWER SUPPLY/CONTROL INPUT



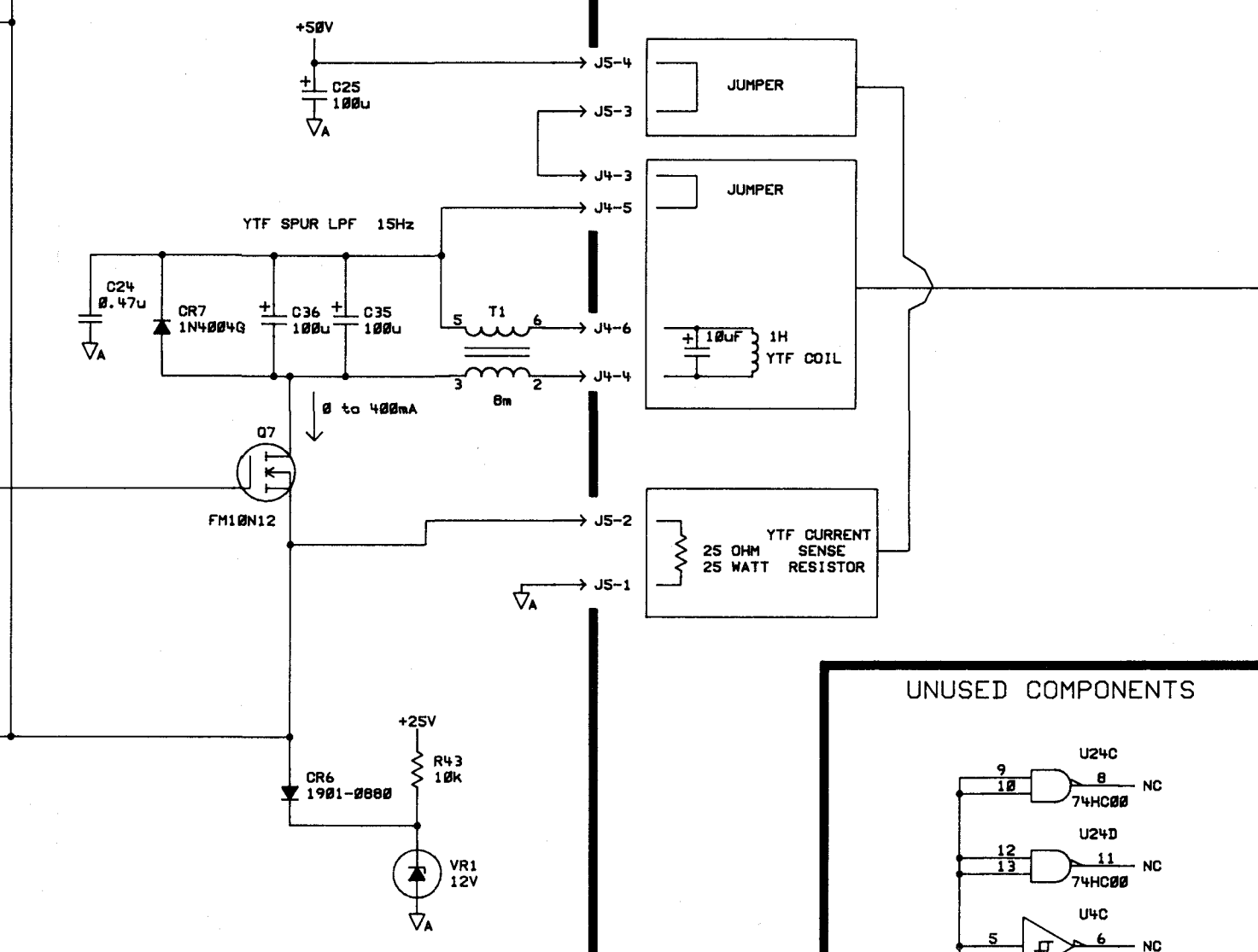
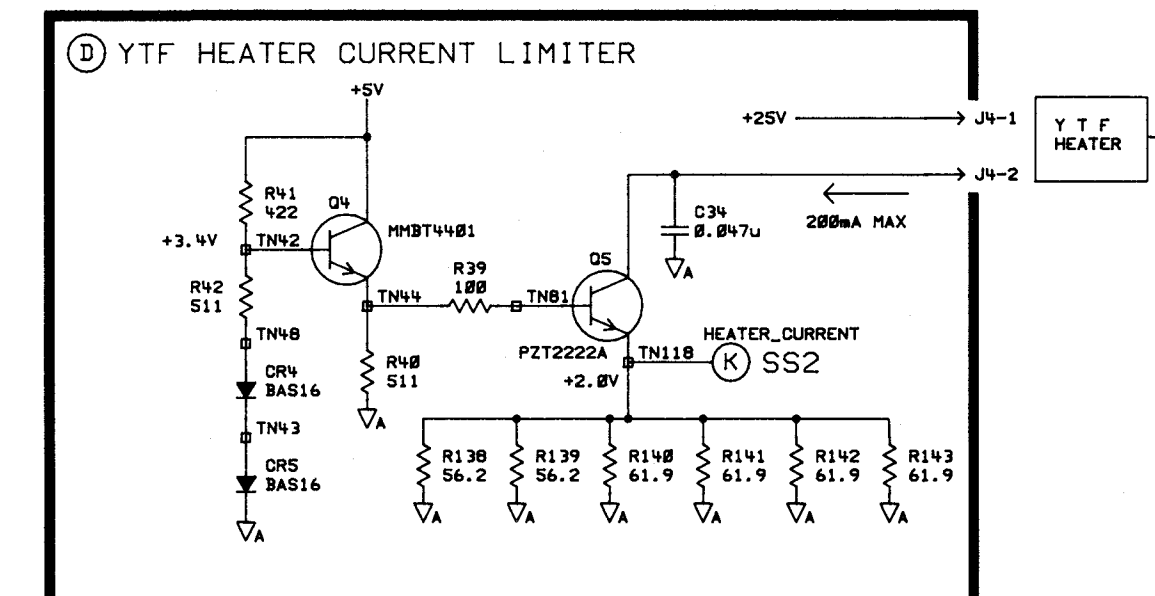
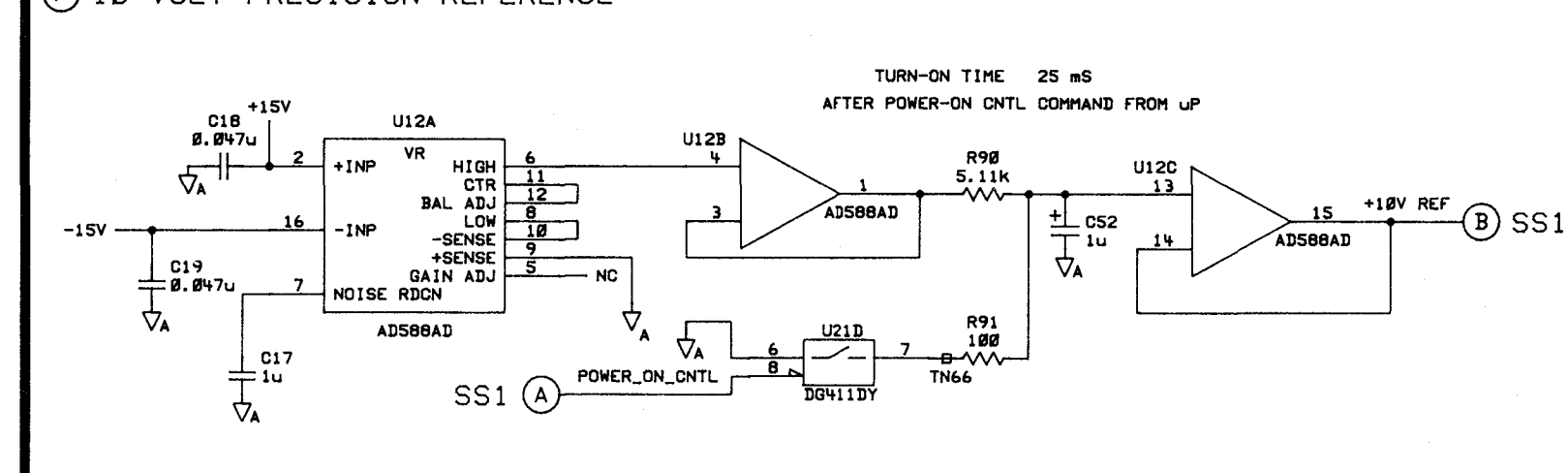
B 2nd GATE BIAS CONTROL/TUNE-SPAN GENERATOR



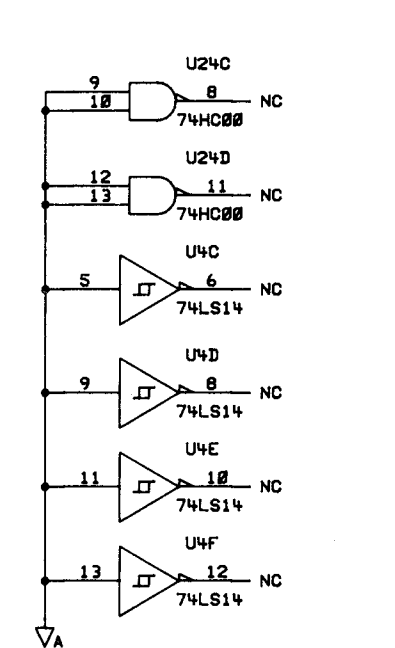
C YTF CURRENT DRIVER



F 10 VOLT PRECISION REFERENCE



UNUSED COMPONENTS



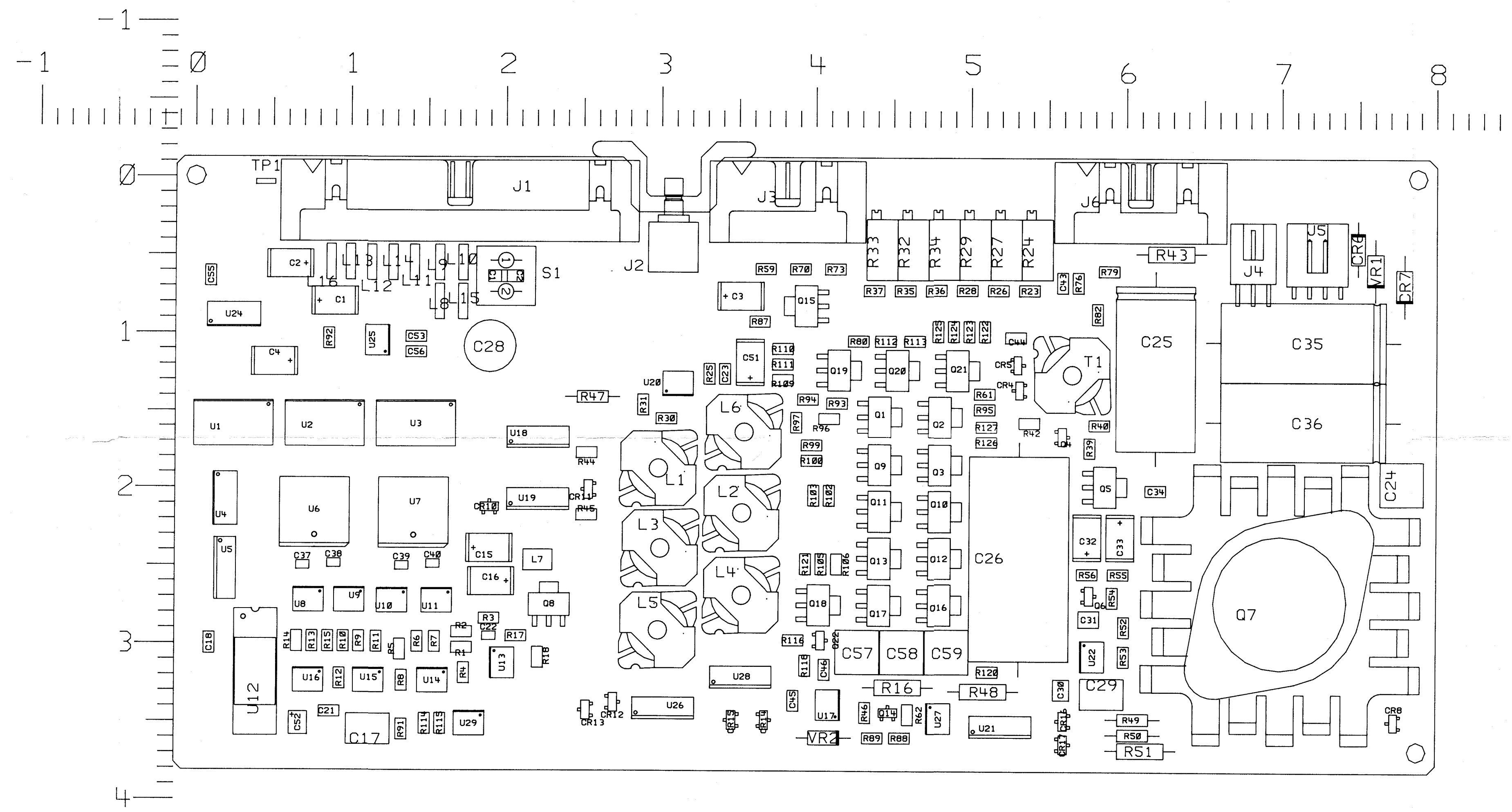
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TOM FAULKNER
ENGINEER/CHECKER
TAMMY RISA
RELEASE TO PROD.
SUPERSEDES DWG.

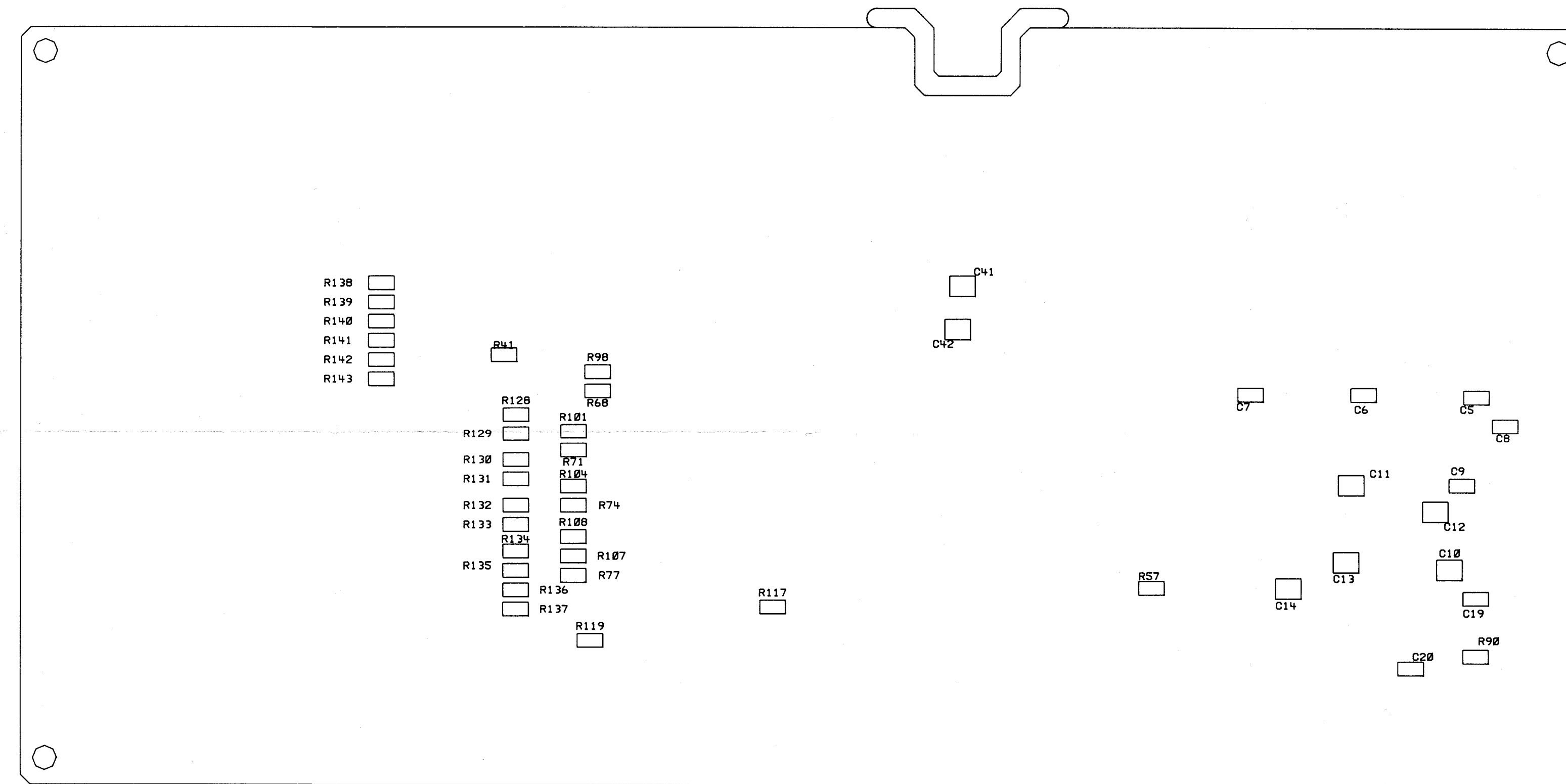
29MAR89
DATE
29MAR89
DATE
8/10/92
DATE

SCHEMATIC, PWA
YTF DRIVER GaAs
FET AMP DRIVER
TITLE

s1bby106
FILENAME
SCALE NONE
SHEET 1 OF 2
70425-60106
PART NUMBER
D-70425-60106-1



70425-60106 FRONT



70425-60106 BACK